

From qrp-request@Think.COM Wed Nov 10 17:10:15 1993
Date: Wed, 10 Nov 93 17:09:41 EST
From: majewski@erim.org (Ron Majewski)
Subject: 40m

After my QRO fall from grace during the CW SS, I fired up my tr5 last night at 4w on 40mtrs. I was using a ground mounted Cushcraft R7 as an antenna.

The band was quiet, noise-wise. I heard a Cuban station and a few Californians around 0245.

Not finding any CQ's, I called my own around 0250. kd4ff in Fairfax, VA answered me right away. We tossed the ball back and forth for about 30 minutes.

At 405 air miles between us, that works out to 100 miles/watt. I've got to find an order of magnitude to catch up with Chuck!

I received my NorCal40 this week, and I hope to get it together over Thanksgiving.
72/3!

Ron (wb8ruq).

From qrp-request@Think.COM Tue Nov 9 22:17:07 1993
From: karayan@cc.bellcore.com (karayannopoulos,george)
Date: 9 Nov 1993 22:15 EST
Subject: 72?

Please forget this newbie's questions, but what is 72? The QRP version of 73? 73 minus 1 S-unit for low power? :-) :-) :-)

George Karayannopoulos N2OWO
karayan@cc.bellcore.com Bellcore, Red Bank, NJ
Disclaimer: The opinions expressed here are mine and not my employer's.

From qrp-request@Think.COM Wed Nov 10 11:29:54 1993
Date: Wed, 10 Nov 1993 08:16:39 -0700 (PDT)
From: "AMICULE, DELICIAE, NUM IS SUM QUI MENTIAR TIBI."
Subject: Re: 72?

"72" is an abomination perpetrated by the same type of folks who would call the Mother Tongue the "Morris Code".

A plague on all their trnasmitters. Fie! Fie!

Grover
WT6P

From qrp-request@Think.COM Wed Nov 10 11:30:07 1993
Date: Wed, 10 Nov 1993 08:18:29 -0700 (PDT)
From: "AMICULE, DELICIAE, NUM IS SUM QUI MENTIAR TIBI."
Subject: Re: 72?

Come to think of it, a plague on all their "transmitters" would be better than on their "trnasmitters". (Damn keyboard.)

Grover

From qrp-request@Think.COM Tue Nov 9 07:55:09 1993
Date: Tue, 9 Nov 93 07:55:00 EST
From: rjl3f@sycamore.cs.virginia.edu
Subject: RE:Hambrew

Sorry to leave everyone on the edge of their seats. Here is the table of contents for Hambrew.

Leters	4
Kit Review: The Ramsey 30 Meter Transmitter	5
Zapp The DX With The Zapper	7
Variable Bandpass Audio Filter	12
Wires And Pliers: Voltage Regulator	15
New Products	16
The NorthWest QRP Club "30-30" CW Transmitter	18
Edge Of Space Sciences: Homebrew Aloft!	20
Foamcore Enclosure Construction	21
Ballon Telemetry Engine	23
Counterpoise And The Antenna	32
Practical Antenna Applications: Parallel Dipoles	33
The Two-Wheelers' Highway Headset With Handlebar PTT	35
Shack Shots	45
Classified Ads	46

I was a little disappointed in the magazine's contents but I have no right to complain since mine came for free. Since the magazine is only published quarterly, \$5 per issue seems pretty steep (but then again I'm a graduate student, not a high paid engineer).

I should mention that of the 48 pages, including the cover, there are less that 40 that actually have articles.

One positive note, subscribers may post one 15 word ad per issue that

is free of charge. 25 cents for each extra word.

I think my money was better spent buying some of the QRP books from the ARRL.

Bob
N4AHB

From qrp-request@Think.COM Mon Nov 8 17:38:23 1993
Date: Mon, 8 Nov 93 17:38:35 EST
From: majewski@erim.org (Ron Majewski)
Subject: another SS story

Hello to everyone on the list!

I'm still riding the contest excitement and it's after 5pm, so I thought I'd join in and share my contest experience.

CW contests are always a blast! It's a great opportunity to move my code speed up a few notches. I also enjoy listening and going to school on the big boys as they smoothly rack up contact after contact. Class is in session for the next 24hrs! :)

I am in the process of getting a station set up for my younger brother who has relocated to American Samoa for two years, so I ran the rig as he will -- 100w with an R7 antenna mounted 5ft off the ground in the backyard. (I know -- Boo! Hiss!) I wanted to get a feel for how the station played under battle conditions. I was very favorably impressed with the R7 performance on the contest bands. I could work anything I could hear, 95% of the time on the first call.

My operating approach was to start at the top of the extra portion and tune upward, working each station in turn. In the end, I made 112 contacts in 54 sections over the course of 5hrs of operation. 40mtrs was really hot Saturday night -- I worked Puerto Rico and six Californians. I used k8cc's NA software to do the logging, but sent and received by hand (Chuck -- I had the pen in my sending hand at all times!).

I only had two stations give me a precedence of "Q" -- ad6t and w0hep.

I also worked w6isq -- John Troster of QST fame. He was in the 700's as far as QS0's go.

A very enjoyable test at my QTH. Just wait until next year ...

73!

Ron (wb8ruq).

From qrp-request@Think.COM Sun Nov 14 17:22:14 1993
From: andrews@fms.com (Andrew Sargent N8OFS)
Subject: Any MARS Members???
Date: Sun, 14 Nov 1993 17:19:28 -0500 (EST)

Hello again gang,

I was wondering if I could find any MARS members on 'boatanchors' or the 'qrp' mailing lists.

BTW, anybody know of any other mailing lists besides these two and 'cq-contest'?

--

Tell Me Something I Don't Know,	! HAM	=	N8OFS
Show Me Something I Can Use,	! ARMY MARS	=	AAN5HJT
Push The Buttons,	! CB	=	THE NEON KNIGHT
Connect The God-Damn Dots!!! - Ministry	! HACKER	=	TH3 N30N KN16Ht

From qrp-request@Think.COM Wed Nov 10 10:43:14 1993
Date: Wed, 10 Nov 93 09:43:26 CST
From: cieslak@cg9.eda.mke.ab.com (Brian Cieslak)
Subject: any more norcal 40 kits

Are there any more kits available -- it not are there plans to make more?

xmas is coming any my xyl wanted to know what I wanted for xmas but she said no the to ts 950.

72,
Brian
AE9K

From qrp-request@Think.COM Mon Nov 8 16:29:28 1993
Date: Mon, 08 Nov 93 21:16:54 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Anyone know this guy?

>From wildcat.mailroom@chowda.sbs.com Mon Nov 08 21:07:07 1993
Received: from mgate by jek with SMTP
id AA20675 ; Mon, 08 Nov 93 21:07:05 GMT

>From POP3@uu2.psi.com. Mon Nov 08 15:55:36 1993
Received: from relay2.UU.NET by uu2.psi.com (5.65b/4.0.071791-PSI/PSINet) via SMTP;
id AA01807 for poparrl; Mon, 8 Nov 93 16:04:35 -0500
Received: from anomaly.sbs.com (via anomaly.ids.net) by relay2.UU.NET with SMTP
(5.61/UUNET-internet-primary) id AA14022; Mon, 8 Nov 93 16:04:23 -0500
Received: from chowda.sbs.com by anomaly.sbs.com with uucp
(Smail3.1.28.1 #1) id m0owdUp-0004bZC; Mon, 8 Nov 93 15:47 EST
Received: by chowda.sbs.com (wcUUCP 3.90)
id N95700W Mon, 8 Nov 1993 19:25:23 GMT
From: wilddcat.mailroom@chowda.sbs.com (WILDCAT.MAILROOM)
Subject: QRP In Sweepstakes
Date: Mon, 8 Nov 1993 18:43:53 GMT
Message-Id: <9311081525231551@chowda.sbs.com>
To: jkearman@arrl.org

Original To: BOB BERLYN
Original Subject: QRP In Sweepstakes

From: jkearman@arrl.org (Jim Kearman)
Subject: QRP In Sweepstakes
Date: Mon, 08 Nov 93 14:43:53 GMT
To: bob.berlyn
Message-Id: <20541@jek>

The user "BOB BERLYN" does not exist at CHOWDA.SBS.COM

From qrp-request@Think.COM Wed Nov 17 09:27:09 1993
Date: Wed, 17 Nov 93 08:26:00 CST
From: mstrong@raiders.micro.ti.com (Mike Strong)
Subject: Apologies to Chuck

Ok, Chuck, sorry for mis-identifying your Backpacker rig in my previous post. Since he had a Backpacker 2 on display, and the picture of your rig was right next to the display rig, I assumed yours was a '2'. Just goes to show you that the old saying about assuming is correct.

For those of you who asked, here are the addresses and phone numbers for Tejas RF Technology (I got the name of this company wrong in my previous post too. Geuss my memory is not what it once was!). The guy I talked to on Saturday was Bill Hickock, who is a really great guy. (I do remember that :-)!).

Mailing Address:
P.O. Box 720331
Houston, Tx 77272-0331

Shipping Address:
10535 Rockley Road, Suite 103
Houston, Tx 77099

Telephone: (713) 879-9300
Fax: (713) 879-9494

Hours: M-F 0900 - 1700 Central Time

The usual disclaimer. I am not associated in any way with Tejas RF Technology in any way, but thought it would be a good idea to 'spread the word'.

72 de KT5H, Mike mstrong@raiders.micro.ti.com

From qrp-request@Think.COM Fri Nov 12 00:50:45 1993
From: Scott Wood <swood@vela.acs.oakland.edu>
Subject: ARRL QRP Tri-Bander
Date: Fri, 12 Nov 1993 00:50:40 -0500 (EST)

I just picked up the latest revision of the ARRL projects compiled from QST magazine. My brother seems to have permanently borrowed my old "Weekend Projects" book, and made quite a few projects from it, including the 'sardine sender' and the 'tuna tuner'.

However, I was more interested in T/R combinations of QRP rigs, as well as the Omni-box utilities which both seem to be covered well in the new book.

I was sorta drawn in by the Mavti design, but due to the chronology of the article, I am not sure how many parts I could come by. Be nice to have a T/R rig with a SuperHet receiver.

I did however cast a discerning eye on the next project, a tri-bander for 12/15/17 meters. I have even considered getting Doug Demaw's books to try adding a superhet to the design. Has anyone played with this rig? It looks like a fairly simple and spacious design and I was wondering how it worked (especially with the direct conversion receive).

swood

--

If you receive this signature, please return it to it's rightful owner:
swood@vela.acs.oakland.edu swood@argo.acs.oakland.edu
swood@unix.secs.oakland.edu swood@terminator.cc.umich.edu

From qrp-request@Think.COM Fri Nov 12 09:39:14 1993
Date: Fri, 12 Nov 93 09:29:14 EST
From: epacyna@auratek.com (Edward Pacyna)

Subject: Re: ARRL QRP Tri-Bander

>
>I did however cast a discerning eye on the next project, a tri-bander
>for 12/15/17 meters. I have even considered getting Doug Demaw's books
>to try adding a superhet to the design. Has anyone played with this
>rig? It looks like a fairly simple and spacious design and I was
>wondering how it worked (especially with the direct conversion receive).
>
>swood
>
>I have built this transceiver. It is not a very good design. I found
the crystal control, lots of AM breakthrough and poor selectivity to be
very limiting.

73 Ed W1AAZ

From qrp-request@Think.COM Tue Nov 9 15:24:55 1993
Date: Tue, 9 Nov 1993 15:22:38 -0500
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: Re: artwork for nn1g-II/norcal 40

Thanks to all that responded about the artwork for these rigs.

I guess we have the NN1G rig covered. One of the fellows in our local club (Brockport Amateur radio club) got the artwork for the NN1G-II rig directly from NN1G himself. I guess that they talked, probably at some ungodley code speed about the project during ss, and NN1G sent a package out that day. Wow! So, we will probably build a few evaluation units, and if all works out well, maybe present this as a club project, once the 50 or 60 spiders are completed. (I made 2 spiders, working on the third).

73 all, and thanks.
Brad WB8YGG

P.S. the artwork is nice and small!

From qrp-request@Think.COM Tue Nov 9 17:01:59 1993
Date: Tue, 9 Nov 93 17:00:01 EST
From: Clark Fishman (FSAC-FCD) <cfishman@PICA.ARMY.MIL>
Subject: Attn: Jeff

I could not reach Jeff Herman directly....
I would like a copy of the QRP transmitters...

tnx WA2UNN Clark Fishman cfishman@pica.army.mil

From qrp-request@Think.COM Mon Nov 8 10:56:06 1993
Date: Mon, 8 Nov 93 07:54:11 -0800
From: mcronenw@pyramid.com (Mark Cronenwett)
Subject: Better on Second Contest (SS)

Well guess what gang, Mark managed to make the decision that I wanted to put myself through more suffering by entering another CONTEST! Now mind you, the last experience was not all that bad, if you get past the fact that I forgot CW at a crucial moment, and had to start with the code practice over the last couple of weeks to get the ability back. Again I ask, why does anybody do this? :))

I managed to get to the radio about 4 hours after the contest started. Of course this was better in the long run, this was the EVENING after all. Much better for my CW abilities (I now have none remember :)). Well I tune around on 40, and I find a nice pleasant station calling CQ, and strong to boot. KA7W..(naw).X..(can't be)..N.. Not only am I astonished that I can even comprehend all those little rascals, but I can write them down too! :(-) But most of all, this is my dad who is doing the contest. Wow, make a great first contact. What came after is best described as a ROAR. I tried a couple of times to get him, but to no avail. A couple of hours later, I notice that while I am having fun, my contact rate is 3 per DAY?...no silly, HOUR!!! Wow, I had better get going. I am supposed to WIN you know.

I ended the contest with 36 contacts, for an average of 1 contact every 12 minutes, or 5 per hour. At times I even got 1 every 4 minutes!! What Joy-Joy feelings that brings. :)))

Now I just need to get ready for that ARCI contest that comes in December. I think this contester was born yesterday..:))

Good luck.

72, Mark (14 wpm and increasing)

```
*****
-m----- Mark Cronenwett Wk: (408)428-9000 x6978
-mm----- Technician Specialist Fax:(408)428-8855
---mmmm----- Board Analysis and Repair Team Naui AI Z9697
-----mmmmmm--- Pyramid Technology Corporation
-----mmmmmmmm-- San Jose, California
-----mmmmmmmm-- mcronenw@pyramid.com KA7ULD(@N0ARY.#NOCAL.CA.USA.NA)
```

From qrp-request@Think.COM Mon Nov 8 15:23:46 1993
Date: Mon, 8 Nov 93 07:54:11 -0800
From: mcronenw@pyramid.com (Mark Cronenwett)
Subject: Better on Second Contest (SS)

Well guess what gang, Mark managed to make the decision that I wanted to put myself through more suffering by entering another CONTEST! Now mind you, the last experience was not all that bad, if you get past the fact that I forgot CW at a crucial moment, and had to start with the code practice over the last couple of weeks to get the ability back. Again I ask, why does anybody do this? :))

I managed to get to the radio about 4 hours after the contest started. Of course this was better in the long run, this was the EVENING after all. Much better for my CW abilities (I now have none remember :)). Well I tune around on 40, and I find a nice pleasant station calling CQ, and strong to boot. KA7W..(naw).X..(can't be)..N.. Not only am I astonished that I can even comprehend all those little rascals, but I can write them down too! :(-) But most of all, this is my dad who is doing the contest. Wow, make a great first contact. What came after is best described as a ROAR. I tried a couple of times to get him, but to no avail. A couple of hours later, I notice that while I am having fun, my contact rate is 3 per DAY?...no silly, HOUR!!! Wow, I had better get going. I am supposed to WIN you know.

I ended the contest with 36 contacts, for an average of 1 contact every 12 minutes, or 5 per hour. At times I even got 1 every 4 minutes!! What Joy-Joy feelings that brings. :)))

Now I just need to get ready for that ARCI contest that comes in December. I think this contester was born yesterday..:))

Good luck.

72, Mark (14 wpm and increasing)

-m----- Mark Cronenwett Wk: (408)428-9000 x6978
--mm----- Technician Specialist Fax:(408)428-8855
---mmmm----- Board Analysis and Repair Team Maui AI Z9697
----mmmmmm--- Pyramid Technology Corporation
-----mmmmmm--- San Jose, California
-----mmmmmmmm- mcronenw@pyramid.com KA7ULD(@N0ARY.#NOCAL.CA.USA.NA)

From qrp-request@Think.COM Wed Nov 17 16:48:01 1993
Date: Wed, 17 Nov 93 16:42:07 EST
From: "Henry T. Rand Jr." (FSAC-AAD) <rrand@PICA.ARMY.MIL>
Subject: Big Amps and Ads

I second Jim's comments. While I appreciate the engineering that went into and the capabilities of Alpha's products, the attitude that 1.5KW is a necessity is misguided.

Good ops that I know that also own amps and who aren't QRPers usually run barefoot. A good set of antennas makes an amp totally unnecessary most of the time, even for long winded ragchewing types on SSB.

I for one would much rather put my money into a better antenna than run more power and QRM more people in all compass directions rather than just in the direction of the beam heading.

Hope you aren't jeopardizing your job Jim. I think the Alpha guys are understanding though. We used to have our booth in Dayton across the aisle from them. I always wanted to set up a 5 Watt QRP XMTR and let it cook into a dummy load with a wattmeter and a brick on the key. Never did it though. Would have made an interesting comparison in the arena.

72,73
Randy Randy AA2U
Also ARRL Life Member
rrand@pica.army.mil

From qrp-request@Think.COM Wed Nov 17 11:07:12 1993
Date: Wed, 17 Nov 93 10:07:00 CST
From: msdoooley@rockdal.aud.alcatel.com (Michael S. Dooley)
Subject: Bit Freaks

Chuck's story of the Senir Major EE wanting to know what the large blue circular thing was reminds me of another story. Our company had hired

six June brides (recent EE grads) and their new boss wanted them trained on the largest fiber optic transmission system we build. They asked me if I could do the training and how long it would take. I asked them why they were training recent grads with NO transmission systems experience on this system. To make a long story short, I ended up taking them from DC to light in a six week training course. During one phase they were required to build a cable based on a schematic I had given them. I supplied the connectors, wire, solder and iron and any other tools they needed then left them on their own for an hour. I returned to a bunch of melted DB25 connectors and only one that was working (precariously). My initial comment was "it looks like a bunch of engineers have been in here!"(smile)... Anyway, we spent the rest of the day learning how to strip wires, tin, solder and mount parts.... something NONE of them had learned at school.

Mike Dooley KE4PC

PS as an aside, I've been keeping track of these guys since the class, because this training is something we'd never done before or since. Today, the several engineers we hired at the same time who didn't go through the course are still engineers. The three of the six who are still with us are Product line managers or in senior engineering positions. I still say there's virtually no replacement for good, well structured, hands on training to give new hires the background they need when starting a job. Sorry if it seems I'm patting myself on the back, but I sure am proud of how well these guys have done.

Mike

msdooley@rockdal.aud.alcatel.com

From qrp-request@Think.COM Wed Nov 17 13:02:19 1993

Date: Wed, 17 Nov 93 13:02:37 EST

From: doug.snowden@ccd.harris.com (Doug Snowden)

Subject: Re: Bit Freaks

I thought you were going to say they laid you off after you trained them.

Doug

N4IJ

From qrp-request@Think.COM Tue Nov 16 17:49:48 1993

Date: Tue, 16 Nov 93 12:49:34 HST

From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>

Subject: Chuck's rig

I bet Chuck is being inundated with questions and requests. I'll make mine simple: Would you consider just providing the schematic [even for a fee]. That's it! Just the schematic, nothing else.

Jeff NH6IL

From qrp-request@Think.COM Tue Nov 16 21:15:09 1993
Date: Tue, 16 Nov 93 18:24:09 -0600
From: root@chuck.dallas.sgi.com (Super-User)
Subject: Chuck's rig

Schematic ok too. It's for everyone, come one, come all, come on
down..... :-)

I'll let everyone know when it's ready. Remember, I'm on vacation.

:-) whatever that means-----^
SIG
-----cut here-----
Chuck Adams, K5FO - CP60
adams@sgi.com
QRP ARCI Awards Chairman

From qrp-request@Think.COM Wed Nov 17 08:10:13 1993
Date: Wed, 17 Nov 93 08:10:22 EST
From: doug.snowden@ccd.harris.com (Doug Snowden)
Subject: Re: Chuck's rig

I'm for that. I'm always curious about how things are done, even if I don't
build the thing. Doug, N4IJ

From qrp-request@Think.COM Wed Nov 17 00:20:52 1993
Date: 16 Nov 93 22:10:50 EST
From: "Judy L. Schnabolk" <73043.1704@CompuServe.COM>
Subject: Commerical Filter For Sale - Update

1. 9 Mhz SSB crystal filters. Made by Showa, model SF0922B. Center
frequency is
9.000 MHz, Input / Output Z is 500 ohms. I recall these are 8 pole
filters with a
2.2KHz BW. Size is 1 3/8 L x 3/4W x 13/16H. Filers are new and \$48
each.
2. CW crystal filters. Made by Fox Tango, model YF91H250. Center frequency
is
8999.3KHz, Input / Output Z is 500 ohms and the BW is 250Hz. These
were made
for the Yaesu FT301 or FT7B transceivers. Size is 1 9/16L x 3/4W x
13/16H.

Filters are new and \$58 each.

3. Mystery Filter. All I know is what is says on the box. Made by Collins, crystal filter,

P/N 526701800, Type X420KD126, Customer P/N 293084500. Filter is new and

3L x 1 1/16W x 3/4H. Price is \$10 or B0

4. Monolithic Crystal Filters by Motorola. The center frequency is 17.9MHz . These are

about the size of HC18U crystals and have 3 wire terminals(In, Out, Gnd) and Input

Output Z of 1500 ohms (matches NE602's). Following are specifications from some

notes I had. The BW's are on the wide side. They would be great for AM, will eliminate the unwanted sideband for SSB or CW, can be followed by a narrow filter

for added selectivity, or used as one of the filters in a pass band tuning schema.

a) 6 pole 2 filter set (uses a 2 pole and 4 pole filter in tandem).

CF = 17.900Mhz,

BW = +/- 5KHz @ 3 db and +/- 30KHz @ 80 db, Ripple 1.5 db and IL = 4 db

Input/output Z = 1500 ohms.

b) 4 pole 2 filter set (uses two 2 pole filters in tandem). CF =

17.900MHz, BW =

+/- 5.5KHz @ 6 db and +/- 30KHz @ 64 db. Ripple = 1.5 db and IL = 3 db.

Input/output Z = 1500 ohms.

Filter sets are new and either set is \$10 or B0.

Contact ed@auratek.com or (617) 290-4800 x114 (day phone)

From qrp-request@Think.COM Tue Nov 16 12:38:32 1993

Date: Tue, 16 Nov 93 12:16:50 EST

From: epacyna@auratek.com (Edward Pacyna)

Subject: Commerical SSB Filters

For those of you who want to homebrew a SSB transceiver or update an existing radio, I have some commerical SSB filters for sale.

They are new and have a center frequency of 9.000Mhz. The BW is 2.4KHz and I believe they are 8 pole. The input/output impedance is 500 ohms. The are about 1 1/2"L x 1"W x 3/4"H, and metal encased. Price is \$48 each shipped in

US.

Ed Pacyna W1AAZ email: ed@auratek.com tel: (617) 290-4800 x114

From qrp-request@Think.COM Wed Nov 10 12:18:49 1993
Date: 10 Nov 1993 12:15:23 -0500 (EST)
From: "D A Coleman (ext. 2850)" <DACOLEMAN@fair1.fairfield.edu>
Subject: Computer xtals

Gang,

I've got a mess of crystals from little computer boards of some sort, all with a frequency of 3280, if memory serves. I wonder what that frequency might have been for way back when. I've tried multiplying it, dividing it--but still can't imagine what that crystal frequency might have been for.

Anyhow, if anyone can use them, let me know; I'll see if I can't lay hands on them. I think I have ten or so of them.

72.8381696 . . .

Don Coleman, W1Voq

From qrp-request@Think.COM Wed Nov 10 15:27:12 1993
Date: Wed, 10 Nov 93 12:52:10 -0700
From: tjf@beta.lanl.gov (Tom J Farish)
Subject: Re: Computer xtals

Hi....maybe they are clock crystals from early mini-processors! BTW, are you by any chance related to Jack Coleman at the MIT Plasma Fusion Center?

I worked with him years ago, and I don't remember the names of his kids....

Tom
KJ5LT

From qrp-request@Think.COM Sat Nov 6 07:54:52 1993
From: bob.berlyn@chowda.sbs.com (BOB BERLYN)
Subject: Dumb Question #378
Date: Sat, 6 Nov 1993 01:30:37 GMT

Thanks for all the responses,

Bruce (WT1M) Boy it's a small world, sure I know Ray Collins. He gave me my Inst ticket at Marlboro Mass in Well I cant remember the year,,, but it was a while ago. I fly for Trans World Express and am a

Captain on an ATR-42, a French made twin engine turbo prop, carries 46 Pax and a crew of three. By the way TWE is a wholly owned subsidiary of TWA. I stopped counting my hours at 10,000 but i'd rather be flying the way you are for FUN.

Kevin (WB2EMS) I hear your friend on the hotel rooms all over the Northeast and Midatlantic, thats why I want to take a QRP rig on the road with me. 40 Mtrs is a good band but I think 30 would be better just because the ant size is smaller. Thats a real factor when your trying to pack for 5 days and take a QRP rig with you.

Bob (WA70VU) I have not heard of a J-pole what is it ? Although some Hotel room windows don't open at all, that might be a problem

Dennis (N6TTW) Slinky antennas..... hmmmmm intresting, I have seen a couple of articles on them but never paid much attention, I guess I'll have to look that up. I kind of wanted to build an ANT that woluld not require a tuner. I might just have to build me a QRP trans Match to take on the road. I want to try to keep the bulk down as much as possable. BUT I WILL NOT BE DENIED !!!

Chuck (K5FO) I agree with you 100 % an effecient ant that will fit in my overnight bag that will get out like gangebusters is all I ask.

I will keep you all posted on my quest for the perfect ANT for Hotel room QRP.

Ohh one last thin. What Freq's do the QRP/ers hang out on 40 Mtrs ?

I hope to chat with all of you on the air.

Agn 73 es TNX DE N1PWU

Bob Berlyn
Bob.Berlyn@Chowda.sbs.com
N1PWU
Just Me
East Greenwich, RI

I wish I understood half of what I think I know

From qrp-request@Think.COM Wed Nov 17 13:48:46 1993
Date: Wed, 17 Nov 93 18:18:35 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: ETO Ad

<takes off employee's hat, steps on soapbox>

You're gonna love the ETO ad for the Alpha 87A amplifier on

page 146 of December QST:

"My ALPHA 87A is pure radio pleasure...

[photo of grinning white male, wearing sunglasses and smoking a BIG cigar]

"Life's too short for QRP!"

Shown in the ad is K7SS, who has won a bunch of DX contests in the QRP category. Can you say _sellout_? The ad goes on to mention how helpful an amplifier is with the sunspots declining, and all the QRM on the low bands. Yeah, there's a lot of QRM so let's blast in some more!

Can you write (snailmail, please) a letter to the editor?

American Radio Relay League
225 Main Street
Newington, CT 06111-1494
attn: Brian Battles, Correspondence Editor

<steps off soapbox, puts hat back on>

72/73, Jim, KR1S

Who owns an SB-220 that hasn't been fired up for 2 years.

From qrp-request@Think.COM Wed Nov 17 15:33:31 1993
Date: Wed, 17 Nov 93 14:32:26 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: Re: ETO ad

Jim, KR1S, and the gang,

HMMMMMMMM!! K7SS w/amplifier & QRP. Could we have some conflict of interest. Maybe disqualification? :-)

Brian Battles will get my letter.

Maybe I should see if K7SS got any awards! :-)

SIG

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com
QRP ARCI Awards Chairman

From qrp-request@Think.COM Wed Nov 17 14:33:24 1993
Date: Wed, 17 Nov 93 19:14:41 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: ETO Ad, II

"To the Editor, QST

Sir:

While I believe in a free marketplace, what kind of message does the ETO ad on page 145 of December _QST_ send to new hams? ('Life's too short for QRP!') Within the last year, QST devoted a considerable amount of editorial space to promoting mature attitudes and awareness about excessive power. Good antennas and operating skills can do more than high power to overcome 'mediocre propagation,' and 'QRM on the low bands' wouldn't be so hard to bear if fewer stations adopted the attitude that 1500-W output is a requirement, not the legal power limit. Including such an ad in the journal of the ARRL is the same as accepting cigarette advertising, while editorializing against smoking. 73.

Sincerely,

James E. Kearman, KR1S
Life Member, ARRL"

<soapbox>

I sometimes get email complaining about something the League has done. I'm willing to put my money where my mouth (and my job)is; how about YOU? Or do you agree with the staffer who told me I was taking my avocation (QRP) too seriously?

Here's that address again:

American Radio Relay League
225 Main Street
Newington, CT 06111-1494
attn: Brian Battles, Correspondence Editor

72/73, Jim, KR1S
ARRL Employee (this week, at least)

From qrp-request@Think.COM Wed Nov 17 16:45:44 1993
Date: Wed, 17 Nov 93 16:45:27 -0500
From: wb9omc@ecn.purdue.edu (Duane P Mantick)
Subject: Re: ETO Ad, II

I must side with KR1S on this issue. About the only excuse for anyone to be using that sort of power is during a bona fide *emergency*. The rest of the time it ought to be throttled back, and I mean a LOT.

Hams who feel that they ought to be *guaranteed* the ability to make instantaneous contact anywhere on the planet should try using the phone. That's what it is for.

As for QST, I do think they should have thought about that ad being in poor taste and rejected it - but told the company that a better ad that is more sensitive to the issue could be accepted. Another point - such a piece of equipment is only likely to be affordable to those with some \$\$\$\$\$. I wonder what percentage of amateur ops (and we'll cut it down a bit by saying "folks who actually GET qst magazine") are likely to buy such an item. perhaps that ad space could have been better used advertising a more universal desired product.

Duane
(who's never run over 75 watts in his LIFE.....)

From qrp-request@Think.COM Wed Nov 17 18:14:16 1993
Date: Wed, 17 Nov 93 17:13:33 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: ETO and Bricks

:-) Great writeup Randy. That would be cute. QRP rig with brick on key with output into dummy load.

1. How long will rig last?
2. How much will electric bill be?
3. How much pollution caused to the environment?
4. What radiation hazard does this generate?

REAL Hams do it with minimum power required as directed by law. QRP or die!

73
SIG

-----cut here-----

Chuck Adams, K5FO - CP60

adams@sgi.com
QRP ARCI Awards Chairman

From qrp-request@Think.COM Wed Nov 17 15:49:17 1993
Date: Wed, 17 Nov 93 15:38:25 -0500
From: okas_rp%ncsd.dnet@gte.com
Subject: ETO vs QRP

Jim and gang,

I too saw the ad, albeit in a different publication. I taken
aback at the somewhat callous attitude toward qrp'ers in particular
and the collective gestalt of hamdom in general.

In this electronic age, do we really need to kill more trees
sending snail.mail? Please post Brian Battles' email address so we
can post our responsible comments and concerns in real-time. Our
addresses are in the headers, let them serve as our signatures.

Bob - N3MBY

From qrp-request@Think.COM Wed Nov 17 17:05:10 1993
Date: Wed, 17 Nov 93 16:11:04 CST
From: cieslak@cg9.eda.mke.ab.com (Brian Cieslak)
Subject: ETO VS QRP

My apologies to THE POOR GUY WHO RECEIVES THE STUFF AT QRP-REQUEST.I'LL GET THE
ADDRESS RIGHT ONE OF THESE DAYS.

I'm not sure but I think that amplifier in the ad can be driven to full output
with only 5 watts in....Maybe k7ss used his argonaut..

73,
Brian
AE9K

From qrp-request@Think.COM Mon Nov 15 13:14:09 1993
From: randy@cyphyn.radnet.com (Randy)
Subject: flea market yummys
Date: Mon, 15 Nov 1993 13:12:50 -0500 (EST)

I was at the Scara flea market (the one in CT) and came home with all
kinds of antique transistors.

Rather than send the whole list and info on them HERE, I'll E-mail individually to anyone interested..

Wow..I stepped back in time seeing those 60's transistors.

Also got chassies, tubes and this-n-thats to start making 3-4 watt xmits and receivers (even the IF xformers too!)

--

Randy KA1UNW	If you get a shock while	
	servicing your equipment,	"Works for me!"
randy@192.153.4.200	DON'T JUMP!	-Peter Keyes
	You might break an expensive tube!	

From qrp-request@Think.COM Mon Nov 15 14:45:20 1993
Date: Mon, 15 Nov 93 13:40:32 CST
From: mstrong@raiders.micro.ti.com (Mike Strong)
Subject: Re: flea market yummys

Randy, congratulations on the great finds at the Scara flea market. I was at the Houston Ham-Commvention on Saturday looking forward to finding parts, tubes and crystals. I was really disappointed in the flea market. No tubes, no small parts. Was finally able to find a couple of 40m Novide band crystals, but that was about it.

The commercial exhibit was much better. In addition to the big displays by the big 3, MFJ had a big set-up. Was able to play around with the MFJ qrp rigs. Also got to talk to the folks from Mr. Nicad about gel cels and chargers, etc.

The HIGH point of the day was finding the exhibit by Tejas Electronics, makers of the BackPacker 2. I think I have the name of the company right. Even saw pictures of the famous BackPacker 2 owned, built and operated by Chuck Adams. We yacked about QRP in general and Chuck in particular for 15 minutes. There was a constant stream of self-professed satisfied customers coming by the table. There seems to be a lot of interest in QRP here in Houston, if the activity at the Tejas table is any indication.

BTW, Tejas sells hard to find small parts (air variables, verniers, power transistors, small cabinets, etc.) that are not in his catalog. You might drop him a line if you are interested. I don't have his catalog here at work, so I can't post his address. I'll try to remember the catalog tomorrow if anyone is interested in his address/phone number, etc.

Back to work.

72 de Mike KT5H mstrong@raiders.micro.ti.com

From qrp-request@Think.COM Mon Nov 15 16:56:29 1993

From: gganderson@augustana.edu (Kevin Anderson -7325)
Subject: FOR SALE: HW-8 (repost from rec.radio.swap)
Date:

this is from rec.radio.swap. Should interest someone on here if they work fast. Do not e-mail me, but call the seller please.

Kevin Anderson, kb9iua

--- Forwarded message follows ---

From: sford@arrl.org (Steve Ford)
Subject: FOR SALE: HW-8
Date: 15 Nov 93 15:11:28 EST

FOR SALE: Heath HW-8 QRP transceiver.

Operates on 80, 40, 20 and 15 meters with 2 watts output. Direct conversion receiver. CW only.

Excellent condition, power supply and manual included.

\$90

Call Dave Patterson at (513) 890-4045 after 6pm. You can also fax anytime at (513) 898-8925.

(This message posted on behalf of the seller. He does not have Internet access.)

--Steve, WB8IMY
ARRL

From qrp-request@Think.COM Tue Nov 16 11:51:54 1993
Date: Tue, 16 Nov 93 08:54:04 PST
From: Spence S Wilhelm <Spence_S_Wilhelm@ccm.hf.intel.com>
Subject: fun with simple direct conversion receivers

Text item: Text_1

I have been building a 30 meter direct conversion receiver. I got the idea from reading articles in QST and 73 mag about two receivers that use NE602 and LM386 audio chips, the Sudden Receiver and the Neophyte Receiver. So far I have been reluctant to purchase a kit, the engineer in me makes me try crazy things like building from scratch. It has taken

me about a week to get the board prepared and populated with components. Last night I finished by adding an antenna jack and fired the receiver up. Initially I heard only a loud hiss from the audio amplifier, bummer. On a whim I replaced the NE602 and immediately heard a short wave broadcast station. It took only a few minutes to get to get the thing aligned and it works! I'm hooked. All night long I dreamed about QRP home brew. Now I have plans to add a transmitter, RIT, AGC, QSK,... Come to think of it maybe buying a kit isn't such a bad idea. :-)

73,

kb7tcy, spence wilhelm

spence_s_wilhelm@ccm.ch.intel.com

From qrp-request@Think.COM Wed Nov 17 09:33:45 1993
Date: Wed, 17 Nov 1993 08:35:22 -0600 (CST)
From: "JEFF M. GOLD" <JMG@ntech.edu>
Subject: good laugh

Well guys and gals, wasn't going to admitt it, but I am anyway.

I finished up the NorCal 40 last nite.. was having a real bad day and should have stayed out of the shack.. guess I am to dumb to learn. I keep trying to believe in science and feel you should be able to have a bad day and not have it linked to doing really stupid things.

Well .. checked the bottom of the board with my magnifying glass, didn't see any problems. I had hooked up the optional 3 parts to get rid of the birdie. plugged in the power supply and flipped the switch. Never seen so much smoke from such a small project in all my born days. Not being all that unfamiliar with the generation of high quantities of smoke using small components.. I immediately looked for a fried choke. Sure enough, fried RFC1.. BIG TIME.. Well traced a teeney weeney solder bridge to the modification and promptly unmodified it.

Also didn't find the problem right away and fried my stock of chokes.. all sizes and all shapes. About had to keep the fire extinguisher handy. My son never enjoyed ham radio so much in the last 2 years as he did watching me turn on the power supply and watching the billows of smoke rise from the board and cover the work bench. He would go off and do something while a replaced the choke and tried to find the problem, and made me promise to call him the next time I was going to fry something. Boy was he disappointed when I turned it on and no smoke came out.

Got up about 5:30 this morning and replaced the 3 ne602s and injected a signal into the rig with my antenna analyzer.. the receiver seems to work and the volume control, RIT and VFO seem to be doing something.. guess that is a good sign.

Well got a little confident and plugged in a key and turned on the power.. RFC1 gone again...Is there any chance a mono plug could cause this to happen.. couldn't find any more bridges.. there were 2 or 3 electrolytic capacitors in the circuit that didn't have the polarity marked.. do they have to go in a certain way.. looked at the schematic and couldn't figure how it would make a difference.. but who knows... HELP.

have a good day.

72

Jeff, AC4HF

From qrp-request@Think.COM Sat Nov 6 08:38:19 1993

Date: Sat, 6 Nov 93 07:38:09 -0600

From: adams@chuck.dallas.sgi.com (Charles Adams)

Subject: Hambrew

Bob, N4AHB, writes:

"

I never ordered Hawbrew but received a copy in the mail two days ago.

Bob
N4AHB

"

Now Bob, that's a heck of way to treat us. :-) Tease us like that. Tell us, what's in it. Do you think it would be worth \$20 a year? Inquiring minds wanna know. We just gotta know.

:-)

Confess and yee shall be forgiven.

ciao,
SIG

-----cut here-----

Chuck Adams, K5FO - CP60

adams@sgi.com
QRP ARCI Awards Chairman

From qrp-request@Think.COM Mon Nov 8 09:49:15 1993
Date: Mon, 8 Nov 93 07:49:07 MST
From: Doug Datwyler <datwyler@moons.sim.es.com>
Subject: Hambrew

I was disappointed at first, since it is SMALL and BLACK-WHITE. Some of the articles are not the best, and the software/layout tools weren't used very well. I suspect the publisher (?NAME?) is trying to scrounge up subscriptions. I might stick with it for the year (a suggestion from the XYL) and make comments and suggestions to the people involved. The premise isn't bad, it just wasn't executed very well.

Doug Datwyler
WR7O
datwyler@moons.sim.es.com

From qrp-request@Think.COM Mon Nov 8 13:51:21 1993
Date: Mon, 8 Nov 93 07:49:07 MST
From: Doug Datwyler <datwyler@moons.sim.es.com>
Subject: Hambrew

I was disappointed at first, since it is SMALL and BLACK-WHITE. Some of the articles are not the best, and the software/layout tools weren't used very well. I suspect the publisher (?NAME?) is trying to scrounge up subscriptions. I might stick with it for the year (a suggestion from the XYL) and make comments and suggestions to the people involved. The premise isn't bad, it just wasn't executed very well.

Doug Datwyler
WR7O
datwyler@moons.sim.es.com

From qrp-request@Think.COM Mon Nov 8 15:55:51 1993
Date: Mon, 8 Nov 93 15:49:03 EST
From: Clark Fishman (FSAC-FCD) <cfishman@PICA.ARMY.MIL>
Subject: Hambrew

Ok you guys, now that you got my interest, that's the table of contents for this newly launched mag???

Is it bigger then Sprat???

Inquiring mimes want to know

WA2unn

From qrp-request@Think.COM Mon Nov 8 20:05:47 1993
Date: Mon, 8 Nov 93 20:05:41 -0500
From: jrj@mbunix.mitre.org (James R. Johns)
Subject: Hambrew

I received a copy of Hambrew in today's mail. At first glance it looks a lot like Sprat in size and paper/print format. While it is produced in black and white, the quality of the photos is excellent with sharp contrast. It is 48 pages in length (counting the front and back covers) and while not "super technical" offers material on everything from antennas to balloon telemetry to a simple 30 Meter QRP transmitter. For \$20 a year, if they can continue to collect good material from the ham community, it should be worth the investment. My approach to value assessment may be a bit different than some others on the net. I figure that if I can get just one good idea or bit of new technical knowledge from any seminar or magazine then that investment was worth the cost of admission. If anyone is interested in the table-of-contents drop me an Email and I'll type it into the computer and Email it out.

73 & 72

Jim Johns KA0IQT
jrjohns@mitre.org

The comments above represent my opinions and I have no association with the magazine except as an interested reader.

From qrp-request@Think.COM Tue Nov 9 06:32:21 1993
Date: 9 Nov 1993 06:30:09 +0000
From: "Bob Scott" <Bob_Scott@cpqm.saic.com>
Subject: Hambrew

Hambrew

Received my copy yesterday. I just had time to skim it, but I have to admit being a little disappointed. I will withhold final judgement for a couple of issues.

73

Bob

AC4QO

From qrp-request@Think.COM Mon Nov 15 10:11:08 1993
Date: Mon, 15 Nov 93 08:10:29 MST
From: Doug Datwyler <datwyler@moons.sim.es.com>
Subject: Hambrew

As I said before, I think Hambrew sucks, but maybe it can be made better.

Doug Datwyler WR7O
datwyler@moons.sim.es.com

From qrp-request@Think.COM Mon Nov 8 06:46:33 1993
Date: 8 Nov 1993 07:44:41 +0000
From: "Bob Scott" <Bob_Scott@cpqm.saic.com>
Subject: Re: Hambrew

Re>Hambrew

Charles, you are one up on me. The only thing I have ever received was a card postmarked 17 September thanking me for my subscription.

From qrp-request@Think.COM Mon Nov 8 07:38:49 1993
Date: Mon, 8 Nov 1993 07:38:36 -0500
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: Re: Hambrew

My opinion, and mine only...
I bet if the league was publishing this
magazine, that all that ordered would have it. 73 Brad WB8YGG

From qrp-request@Think.COM Mon Nov 8 08:58:28 1993
Date: Mon, 8 Nov 93 06:05:40 -0500
From: wb9omc@ecn.purdue.edu (Duane P Mantick)
Subject: RE: hambrew

Says WB8YGG:

>My opinion, and mine only...
>I bet if the league was publishing this
>magazine, that all that ordered would have it. 73 Brad WB8YGG

Maybe so, but would it have anything in it of value? :-) :-) :-)

Duane

WB90MC

From qrp-request@Think.COM Mon Nov 8 11:19:54 1993
Date: Mon, 8 Nov 1993 10:16:05 -0500
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: RE: hambrew

> From qrp-request@Think.COM Mon Nov 8 09:59:29 1993
> Date: Mon, 8 Nov 93 06:05:40 -0500
> From: wb9omc@ecn.purdue.edu (Duane P Mantick)
> To: qrp@Think.COM
> Subject: RE: hambrew
> Content-Length: 234
>
>
> Says WB8YGG:
>
> >My opinion, and mine only...
> >I bet if the league was publishing this
> >magazine, that all that ordered would have it. 73 Brad WB8YGG
>
> Maybe so, but would it have anything in it of value? :-) :-) :-)
>
> Duane
> WB90MC
>
>
Good Point! Lately I haven't got too much from QST, but I haven't
written much lately either. hi hi..

73 all.. Brad WB8YGG chirp chirp

From qrp-request@Think.COM Mon Nov 8 11:36:05 1993
Date: Mon, 08 Nov 93 16:22:27 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: RE: hambrew

Duane, WB90MC, says:
>
> Says WB8YGG:
>
> >My opinion, and mine only...
> >I bet if the league was publishing this
> >magazine, that all that ordered would have it. 73 Brad WB8YGG
>
> Maybe so, but would it have anything in it of value? :-) :-) :-)

>
> Duane
> WB9OMC
>
>

But Duane's hardly in a position to make such a joke, as his
ARRL membership ran out in 1982, according to our records. :>

Jim, KR1S

--
jkearman@arrl.org

From qrp-request@Think.COM Mon Nov 8 15:19:36 1993
Date: Mon, 8 Nov 1993 10:16:05 -0500
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: RE: hambrew

> From qrp-request@Think.COM Mon Nov 8 09:59:29 1993
> Date: Mon, 8 Nov 93 06:05:40 -0500
> From: wb9omc@ecn.purdue.edu (Duane P Mantick)
> To: qrp@Think.COM
> Subject: RE: hambrew
> Content-Length: 234
>
>
> Says WB8YGG:
>
> >My opinion, and mine only...
> >I bet if the league was publishing this
> >magazine, that all that ordered would have it. 73 Brad WB8YGG
>
> Maybe so, but would it have anything in it of value? :-) :-) :-)
>
> Duane
> WB9OMC
>
>

Good Point! Lately I haven't got too much from QST, but I haven't
written much lately either. hi hi..

73 all.. Brad WB8YGG chirp chirp

From qrp-request@Think.COM Sat Nov 13 22:26:51 1993
Date: Sat, 13 Nov 93 21:26:36 -0600

From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: Hambrew es QRPP Review

Gang,

I received a few days ago in the mail two items: QRPP - Journal of the Northern California QRP Club and Hambrew - for Amateur Radio Designers and Builders.

Let me give my impressions of both, and these are my impressions and mine alone.

	HAMBREW	QRPP
Date	Autumn 1993	December 1993
Pages (including cover)	48 pages	60 pages
Size	5.5"W x 8.5"H	5.5"W x 8.5"H
Weight	2.7oz	2.3oz
	(weighed on electronic postal scale)	
Postage, if mailed 1st	\$0.75	\$0.75
	I don't have the 3rd class rates.....	
Paper	60lb slick	20lb nongloss
Pictures	3 full page shots B&W including F&B covers	No full page photos
	22 B&W Photos (good qua.)	1 B&W Photo (scanned)
	total space of 10 pgs	about 1/3 page total
Cartoons	2/3 of a page total	none
Advertising	4.5 pages	none

HAMBREW ARTICLES (already table of contents posted to net)

1. Ramsey 30 Meter Transmitter Kit Review - Ramsey might go after them after this one. They changed the box (RS), added LED pwr, and other stuff to really canabalize (sp?) the thing. I personally don't think the results could be counted as a Ramsey kit. :-) I really didn't like the way they split the article after one page and continued toward the last of the publication. They did this in a bunch of places. A definite turnoff for me.

2. Zapp The DX With The Zapper - how to build a mobile antenna for about \$30 to \$50 using PVC es stuff. "The Zapper" a play on the "Bug Catcher". ;-) Cute.

3. The NorthWest QRP Club "30-30" CW Transmitter by KG7CR. A crystal controlled QRP rig. 2.5 pages including one page for schematic and parts list and .5 page for winding toroids. Not much meat at all, like maybe a PC board layout for those who are interested.

And other articles, which I leave for the others in the group to give us their feedback on. I wasn't too thrilled myself, but that's just me, I'm sure.

QRPP Articles (already a table of contents posted to the net, I think)

1. A bunch of articles by various people from this group, including yours truly. So, a bunch of it will be review for those who read this group.
2. Article by Wayne Burdick, N6KR, designer and father of the NorCal 40 Rig! This article alone is worth the \$5 price for a whole years subscription to the newsxxxxx ooops, Journal of the Northern California QRP Club. :-) Four pages of the description of the circuits and two full pages for the schematics. So, those of you who did not get to buy the kit, here's your chance to get a look at it. No PC board layout. We'll let Wayne worry about that deal. It's his puppy, so to speak.
3. Three and a half pages on an Audio Filter by Jim Pepper, W6QIF, including graphs of frequency responses and circuit diagrams.
4. Three and a half pages with NorCal Club members, numbers, and addresses. I see some of you there in the list. Who's who of the internet. :-)

And I didn't want to get too detailed in the reviews.

Summary. Hambrew - \$20 per year, four issues sent 3rd CLASS mail.
QRPP - \$5 per year, four issues sent 1st CLASS mail.

I enjoyed the QRPP more and spent more time wading through it, since it has more print and more info and a lot fewer pictures and advertising.

Hambrew, P.O. Box 260083, Lakewood, CO 80226-0083 \$20/yr
QRPP, Jim Cates, WA6GER, 3241 Eastwood Rd., Sacramento, CA 95821 \$5/yr

I don't think that Hambrew is aimed or going to attempt to do much for the QRP crowd. I got a call from George De Grazio, WF0K, Publisher, after I called on his 800-5-HAM-RIG number to see where my copy was. I received a copy first class mail a few days letter with note that this was a sample issue. What? I paid \$20 for one year plus a bonus issue. Does he not have me down as a regular subscriber? Those of you who have not received your issue, call him. Since they are being sent 3RD Class mail and we know what the US Postal Service does to third class mail, I'd check up on it.

Oh. There will be no back issues of QRPP. Issue will be mailed out Dec 1, 1993 first class mail. Be sure to get your money in post haste.

DISCLAIMER: I am a member of the NorCal Club, but I don't get anything special from them, so this is a review on what I have seen. The above is my opinion(s) and I'd be glad to have anyone in this group that has seen the Hambrew issue and disagrees with the review, let US know. I make errors, but rarely. :-)

dit dit

SIG

-----cut here-----

Chuck Adams, K5FO - CP60

adams@sgi.com

QRP ARCI Awards Chairman

From qrp-request@Think.COM Mon Nov 15 09:38:43 1993

Date: Mon, 15 Nov 93 08:38:31 -0600

From: adams@chuck.dallas.sgi.com (Chuck Adams)

Subject: Hambrew Revisited

Gang,

Something bothered me last week in doing the review of QRPp and Hambrew.

I noted that there was an article on a mobile antenna called "The Zapper". In fact the article title is "Zapp The DX With The Zapper" by Larry Feick, NF0Z. It bothered me that the diagram looked familiar, almost like a commercial product I had seen somewhere, but wasn't sure. In fact, it kept bothering me until this morning very very early (I'm ashamed to admit I was up so early) I just whipped out the pile of journals and mags and what do you know? Yep. The QRP Quarterly, January 1990, page 7 and 1/4 of page 8, is the same article. So, looks like we are getting recycled articles. Letter off to George to let him know what I think of that. :-)

So, I'm up for a refund myself. Let you know how it goes.

73 fer now es cul de k5fo dit dit

SIG

-----cut here-----

Chuck Adams, K5FO - CP60

adams@sgi.com

QRP ARCI Awards Chairman

From qrp-request@Think.COM Tue Nov 9 08:06:57 1993
Date: Tue, 9 Nov 93 08:06:54 -0500
From: jrj@mbunix.mitre.org (James R. Johns)
Subject: Hambrew Table of Contents

Since several have asked for the table of contents for hambrew magazine, I decided to post it to the group. Any typos or other errors are probably mine.

Hambrew Vol 1, No 1 Autumn 1993

Contents

Letters

Kit Review: The Ramsey 30 Meter Transmitter

Zap the DX With The Zapper

Variable Bandpass Audio Filter

Wires and Pliers: Voltage Regulator

New Products

The NorthWest QRP Club "30-30" CW Transmitter

Edge of Space Sciences: Homebrew Aloft!

Foamcore Enclosure Construction

Balloon Telemetry Engine

Counterpoise and the Antenna

Practical Antenna Applications: Parallel Dipoles

The Two-Wheelers' Highway Headset with Handlebar PTT

Shack Shots

Classified Ads

Hambrew - Published by Smoking Pencil & Co.

P.O. Box 260083

Lakewood, CO 80226-0083

Ads & Subscriptions 1-800-5HAMRIG

Editorial Office 303-989-5642

Published Quarterly

Hope this helps. 73 & 72

James R. Johns KA0IQT
jrjohns@mitre.org

I have no association with Hambrew other than as a reader of the magazine and any opinions expressed are my own.

From qrp-request@Think.COM Thu Nov 11 17:33:10 1993
From: gganderson@augustana.edu (Kevin Anderson -7325)
Subject: homebrew help
Date:

Can one of you Ten-Tec PowerMite experts help Ed?
I got this message off the rec.radio.amateur.homebrew list.

Kevin Anderson, gganderson@augustana.edu

--- Forwarded message follows ---
From: majec@cactus.org (Majec Systems)
Subject: homebrew help
Keywords: swr protection circuit
Date: Thu, 11 Nov 1993 18:02:59 GMT

I am thinking about a project to put in a swr protection circuit in my QRP radio. It is a TEN-TEC pm2. A direct conversion 1 watt vfo/crystal transceiver.

I am using a 10 ohm resistor in the dc line to the collector on the final, and when I have it tuned for the antenna I take the resistor out and close up the line. Crude I will admit. This is only a temporary fix and will not be good for portable operation such as camping etc. So....

Any suggestions for a protection circuit would be appreciated as i am very new to the sport of ham homebrew and need some elmering on most things.

Thanks

Ed Guinn
KB5RUF/AG
majec@cactus.org

From qrp-request@Think.COM Tue Nov 9 01:51:49 1993
Date: Mon, 8 Nov 93 20:51:42 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: just projects 1-4

Sorry! I just recovered projects 5-10 on r.r.a.homebrew - I had put

extra long expiration dates on those articles. Just need 1-4: Let's see, #1 was a 40M xmtr, #2 was a 20M xmtr, #3 was 15M?? and I guess #4 was for 80M??

Jeff NH6IL

From qrp-request@Think.COM Sat Nov 13 22:51:58 1993
Date: Sat, 13 Nov 93 21:51:45 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: K5FO Special

Gang,

Here is a teaser. Are you interested?

The K5FO special is a modified single board version of the NN1G rig, with some mods. Board about 3.5x5.5", but not layed out yet in final form.

1. Single Band XCVR 80/40/30/20 versions
2. Single Board
3. Superhet Receiver
4. CW Transmitter with QSK
5. AGC for Receiver
6. S-Meter
7. Optional Digital Display for Frequency Readout on another board
8. Optional area for Curtis 8044ABM chip
9. KIT available from at least one place and maybe more. Price target to be around \$100 US currency. This includes digital board also, but not the Curtis Chip.

Not available until it's published, either in QRP ARCI or the QRPP journal.

I'm just seeing if anyone is interested.

I'm still trying to figure out why one would want to undergo the hassle of gathering parts and making a board themselves. Life is too short, unless it's just for the experience. Financial reasons, just don't cut it. It'll cost one more money in time, energy, gasoline, etc. to do it alone. But that's just my opinion. So, for those of you who just gotta do it that way, I'll let you. But, please don't rush me on this one. I've got a prototype of everything, but I'm laying out the board. Shooting for no jumpers and a fit for my case.

I told Wayne Burdick and Doug Hendricks that I could write a program to do the board layout, just like I did the schematic routines that I have. Told them I'd do it in two days. Took me about four, 'cuz of my schedule.

:~) It's written all in C, but it's not an autorouter. I did that 20 years ago and I don't wanna do that ever again. That's why you don't see anyone publish articles in ANY journal on how to do it, they develop their own routines and then go into business selling the binaries.

Last week, I got my system upgraded from a 33MIPS to an 85MIPS processor. Talk about a screaming machine!! Right there on the desk top too. When I taught EE in 1975, at that time I told the students in 10 years they would have the power of the IBM 360/50 on their desk. That came true. Now we have the power of the first CRAY supercomputer available at a significantly reduced price.

So, you now know what the K5FO Special is. Inquiring minds wanted to know. The idea for the digital board is also being used by someone else that I talk to. Great minds run.....

Another article to follow shortly on upcoming contests, for the contest crowd. Doug wants an article on how to setup for contests. I'm not the expert, but I'll start it and the rest can join in. We'll make it a net effort. Everybody welcome to throw in their two cents worth. NO CONTEST FLAMES PLEASE..... Let's think positive.

OH. For those of you interested. I went to a DX club meeting today (Saturday) and they mentioned that the CW ops on 40 meters were writing to CQ magazine complaining about SSB ops way way down in the band for the CQ WW Test a few weeks ago. If you were affected(effected), you might want to join in on the protest. I think I will, cuz the 7040 frequency was constantly occupied. It's not enough that we gotta fight the digital guys tooooooo. :-)

ciao from k5fo/qrp on vacation for one week (oh oh, the guy is gonna be prolific (sp?) now).....

SIG

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com
QRP ARCI Awards Chairman

From qrp-request@Think.COM Mon Nov 15 17:55:33 1993
Date: Mon, 15 Nov 93 17:49:58 EST
From: klaudon@PICA.ARMY.MIL
Subject: Re: K5FO Special

Count me in. I missed out on getting the NorCal 40, and I am interested in the at-or-under 100 dollar qrp kit. But make sure it has a good dial

mechanism and calibration, in case I order it w/o the digital option, to save \$.

How about some kind of transmit indication? Did you mention sidetone? Audio filter?

72, Kalman

Kalman Laudon WD6CZI in 2 land
<klaudon@pica.army.mil>

From qrp-request@Think.COM Mon Nov 15 20:17:32 1993
Date: Mon, 15 Nov 1993 20:14:12 -0500
From: david jerome adams <djadams@silver.ucs.indiana.edu>
Subject: Re: K5FO Special

Could someone fill me in on the k5fo kit? I must have missed that message.

Dave

From qrp-request@Think.COM Mon Nov 15 22:20:40 1993
Date: Mon, 15 Nov 93 14:37:58 PST
From: mont@ibmmail.COM
Subject: RE: K5FO Special

> I'm just seeing if anyone is interested.

Yeah! Sounds super... as long as the rcvr's not an NE602 special. Too many AM stations around the bay area to fool with.

> I'm still trying to figure out why one would want to undergo the hassle
> of gathering parts and making a board themselves. Life is too short, unless
> it's just for the experience. Financial reasons, just don't cut it. It'll
> cost one more money in time, energy, gasoline, etc. to do it alone. But
> that's just my opinion. So, for those of you who just gotta do it that
> way, I'll let you. But, please don't rush me on this one. I've got a
> prototype of everything, but I'm laying out the board. Shooting for
> no jumpers and a fit for my case.

Your absolutely right, Chuck. \$100 is a great price for a kit like this. Only problem is, it seems like for us newbees with limited funds, it's \$100 for this, \$25 for that, another \$50 for something else... Phew... it adds up quick. And when you try to tell the XYL (whose not a ham btw), uh hum, well you know what I mean. They seem to think it's more important to keep shoes on the kids and things like that then to buy ham gear.

And yeah.... Some of us haven't etch too many boards to be tired of it yet. I've only etch about 3 board personally, so it's still fun doing it. And chasing after parts is kind of challenging too, especially when you can't find something, encourages one to experieement a little.

I've put a few kits together that came with ALL the parts included. Didn't even learn anything about how the ciruit worked. Just plug in the parts, solder, cut leads, plug in some more parts, solder, cut leads. Sounds sort of mundane.

Guess it all depends on how you look at it. What do they say about taking trips? Sometimes half the fun is in getting there? I guess I enjoy the building process as much or more then the end result, while many others I'm sure just want to get it done and over with so they can use the new rig. After a few more dozen years and a few more dozen projects, I'll probably be like that too, but for now...

So whenever you complete the project Chuck I sure will be happy if I can get the schematics, pcb template, and parts list. Would you consider selling a kit with just the parts and a copy of the pcb TEMPLATE? (I had to ask..)

Tnx & 73,
km6wt - mont, mont@netcom.com

From qrp-request@Think.COM Wed Nov 17 00:10:18 1993
From: laurahal@microsoft.com
Subject: RE: K5FO Special
Date: Tue, 16 Nov 93 17:08:00 PST

Chuck Adams writes:

> Here is a teaser. Are you interested?
>
> The K5FO special is a modified single board version of the
> NN1G rig, with some mods. Board about 3.5x5.5", but not layed
> out yet in final form.
(lots of nice stuff deleted...)

Yes.

One thought on kits for this: in my homebrew travels, it's usually the active components that are the hard ones to find. I'm currently homebrewing a 30m superhet, and though my junkbox doesn't contain many dual-gate MOSFETS, it contains all the resistors and capacitors and stuff I need. I even stole some nifty switches from a dead tv set.

So how would people feel about a semi-kit: say, a PC board and the stuff that is known to be hard to come by, and you can scrounge the rest.

> OH. For those of you interested. I went to a DX club meeting today
> (Saturday)
> and they mentioned that the CW ops on 40 meters were writing to CQ magazine
> complaining about SSB ops way way down in the band for the CQ WW Test a few
> weeks ago. If you were affected(effected), you might want to join in on
> the protest. I think I will, cuz the 7040 frequency was constantly occupied.
> It's not enough that we gotta fight the digital guys tooooooo. :-)

I heard some folks on 3705 LSB the other night and was not impressed. Though us Canadians are only restricted by the bandwidth of our signals and are not bound by U.S. band plans, plunking oneself down in the midst of the Novice band (and being quite rude about it) is just not cool. And with propagation the way it was, these folks (VE2s) were running at least the legal limit for me to be able to hear them.

73 from Burnaby

laura VE7LDH apologizing for the behaviour of some of her countrypeople

From qrp-request@Think.COM Sun Nov 14 10:59:47 1993
Date: Sun, 14 Nov 93 09:59:40 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: K5FO Special addendum

Sorry gang. Didn't mean to scare anyone. It does have RIT, I promise it does. You can't live without RIT. It's the sign of the times. Too many people don't know how offsets work. Someone on this group could do an article for the newbies and the OFs on how this offset and RIT stuff works. What does it mean +/- RIT? I'm writing other things. YOU DO IT.

:-)

SIG

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com
QRP ARCI Awards Chairman

From qrp-request@Think.COM Wed Nov 17 12:59:30 1993
Date: Wed, 17 Nov 93 17:32:14 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Kits

I discussed the inclusion of cabinets, etc, with one of the better-known kit manufacturers a few years ago. He had just started including silk-screened cabinets and prewound toroids. Personally, I think homemade gear should look homemade, and if you don't get to wind the toroids, what's the point of building a kit? You can get a machine to install the parts on a board, and another one to solder them. For that matter, you can get a machine to wind toroids, too, which is what he did!

Mates, "dead bug," "ugly," or "ground-plane" construction is easy, compact and electrically better than pc boards. It's also faster and less expensive, and easier to modify. Compare the relative sizes of Roy Lewallen's prototype Backpacker and the pc-board-based versions available.

You want hands-on instruction in the method? Throw an ARRL-approved CONVENTION (not a hamfest) and specify you want a Hq staffer who can demonstrate it to attend. I still have the little 12-meter xmtr I built to show at Dayton a few years ago sitting in front of me, and I had an incredibly compact 20-meter transceiver built by Zack Lau sitting on a corner of my keyboard, but the lab made me give it back. :> This method works well. Oh, and you don't have all those nasty chemicals to get rid of.

Form the soldering irons into a circle....

73, Jim

From qrp-request@Think.COM Wed Nov 17 14:24:25 1993
Date: Wed, 17 Nov 93 14:18:56 EST
From: diana@hsd.kodak.com (Gary Diana)
Subject: kits vs homebrew

I have to agree with Jim's (KR1S) comments on homebrewing versus kit building. Although kits have the advantage of a quick "open the box to operation cycle", I take lots

more pride in my more "homebrew" approach.

I start out with artwork and make my own PC boards, number one. This is fun and fairly easy. It also has the advantage of being about 1/10th the cost of commercially made boards.

I get to choose what power, key, antenna, and audio jacks I want to use (standardize on). For example, 1/4" audio jacks on qrp equipment is too clunky to me.

I love to take a plain old aluminum box and carefully lay out the controls and jacks. I use painstaking care to paint and letter the box... although homebrewed, the appearance resembles something more "professional" than homebrew!

I am not to the point of being able to design my own equipment, but I think, when combined with the above steps, that is probably the ultimate in the homebrew-pride factor. Hats-off to the Haywards, NN1G, etc., who fill this major gap in my abilities.

I also realize that like contesting, CW, RTTY, packet, QRP, QRO, etc, etc, that homebrewing/homebrewers come in all sizes and shapes, and what one ham likes another dislikes. This is just an explanation of what interests and motivates me, in this sliver of the hobby.

73 to all, and to all a good night.

- Gary N2JGU

From bruce@Think.COM Tue Nov 9 09:48:22 1993
From: Bruce Walker <bruce@Think.COM>
Date: Tue, 9 Nov 93 09:48:33 EST
Subject: list volume

A number of you have complained (or left the list) about the QRP list volume, which like all discussion lists, goes in spurts. Several present and past subscribers have suggested a digest subscription, where those who wanted to would receive only one piece of mail per day containing all the day's QRP messages. Those who would like to continue to receive messages as they come in would be able to do so.

I have decided to do this, and I am currently evaluating which of several possible software approaches to use. This might not happen for several weeks, since I am going on vacation late next week.

I just wanted to let those who are bothered by the number of messages per day to know that relief will be on the way by the end of the year.

Please don't tell me yet whether you want digests or piecemeal mail;
I'll send out an announcement when it's available.

Thanks to Paul, KD6LAA, who even supplied some scripts to do the
digests.

--bruce
WT1M

From qrp-request@Think.COM Mon Nov 8 13:32:21 1993
Date: Mon, 8 Nov 93 13:32:12 -0500
From: wb9omc@ecn.purdue.edu (Duane P Mantick)
Subject: mail from KR1S

Says Jim:

>But Duane's hardly in a position to make such a joke, as his
>ARRL membership ran out in 1982, according to our records. :>

Obviously your records are incomplete. My membership was
allowed to expire after a nasty mail exchange with one of the head honchos
about that central division election back in those days that stirred up
a great controversy.

I wrote to HQ that I was quite distressed that some crud regarding
that election was done behind closed doors. I expressed distaste that
paid up voting members were being kept in the dark.

Some (person) wrote back telling me that it was none of my
blankety-blank business how the ARRL conducted business.

Excuse me? With MY membership dues? Wrongo. That was the
end of my involvement with ARRL.

I really see no need to get into any greater detail than that, Jim.
The QRPers have more important things to read about. Of course, we can
take it to email.....not GROUP email.... :-)

Duane

From qrp-request@Think.COM Tue Nov 16 23:27:06 1993
Date: Tue, 16 Nov 1993 22:26:15 -0600
From: wrfin@prairienet.org (william r finch)
Subject: MFJ 9240

Greetings, I posted a message earlier requesting info about the MFJ 9240.
I saw when I got my copy that the return address was missing, so here it is:
wrfin@prairienet.org Thanks and 73s de KF9KI

From qrp-request@Think.COM Tue Nov 16 21:11:59 1993
Date: Tue, 16 Nov 1993 20:11:11 -0600
From: wrfin@prairienet.org (william r finch)
Subject: MFJ 9420X

Does anybody have any info on the MFJ 20M SSB rig? Please let me know,
73s de KF9KI

From qrp-request@Think.COM Mon Nov 15 16:12:12 1993
Date: Mon, 15 Nov 93 15:11:50 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: Mike KT5H's post

Gang,

wow, rumors grow. Pictures must of been of the first Backpacker I
that I built. I never owned a II. :-)

ciao,
SIG
-----cut here-----
Chuck Adams, K5FO - CP60
adams@sgi.com
QRP ARCI Awards Chairman

From qrp-request@Think.COM Tue Nov 9 13:01:10 1993
Date: Thu, 28 Oct 93 13:48:52 -0400
From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;WR-ALC/653 CCSG/SCDD)
Subject: More NICAD Packs

Well, I thought I got rid of all the NiCad battery packs. But, as I gathered
some stuff together for the Lawrenceville hamfest, I found a dozen or so that
I had tucked away in a special corner. So, if you need some, here's the deal.

These are military surplus NiCad packs, used.. There are 20 D-Cells in the
pack. They are set up as four 6-volt packs with some circuit that displays

the number of hours of charge left when you push a button on the panel. The packs are in a metal case.. Obviously, this thing plugged into something using the connector (weird type) on the back of the case. Size is slightly smaller than a shoebox. Forgot the weight but it takes 6 or 7 bucks to UPS them..

Tell you what I'm gonna do! For \$15.00, I will ship you one. For \$60.00, I will ship you five of these beauties. I think that will cover my shipping costs and add a few bucks to the 'New Rig Fund.'

Anybody interested? Will consider trades..... What have you got?

73,

Larry, KQ4BY

From qrp-request@Think.COM Mon Nov 8 13:19:45 1993
Date: Mon, 8 Nov 93 10:17:55 -0800
From: mcronenw@pyramid.com (Mark Cronenwett)
Subject: My Account of SS

I did not see my posting get posted yet, so I assume it did not make it. Funny, it did not bounce either. My most humble (yeah, right:)) apologies if this is a second time around..

Well guess what gang, Mark managed to make the decision that I wanted to put myself through more suffering by entering another CONTEST! Now mind you, the last experience was not all that bad, if you get past the fact that I forgot CW at a crucial moment, and had to start with the code practice over the last couple of weeks to get the ability back. Again I ask, why does anybody do this? :))

I managed to get to the radio about 4 hours after the contest started. Of course this was better in the long run, this was the EVENING after all. Much better for my CW abilities (I now have none remember :)). Well I tune around on 40, and I find a nice pleasant station calling CQ, and strong to boot. KA7W..(naw).X..(can't be)..N.. Not only am I astonished that I can even comprehend all those little rascals, but I can write them down too! :(-) But most of all, this is my dad who is doing the contest. Wow, make a great first contact. What came after is best described as a ROAR. I tried a couple of times to get him, but to no avail. A couple of hours later, I notice that while I am

having fun, my contact rate is 3 per DAY?...no silly, HOUR!!! Wow,
I had better get going. I am supposed to WIN you know.

I ended the contest with 36 contacts, for an average of 1 contact every
12 minutes, or 5 per hour. At times I even got 1 every 4 minutes!!
What Joy-Joy feelings that brings. :)))

Now I just need to get ready for that ARCI contest that comes in
December. I think this tester was born yesterday..:))

Good luck.

72, Mark (14 wpm and increasing)

```
*****
-m----- Mark Cronenwett Wk: (408)428-9000 x6978
--mm----- Technician Specialist Fax:(408)428-8855
---mmm----- Board Analysis and Repair Team Maui AI Z9697
-----mmmmmm--- Pyramid Technology Corporation
-----mmmmmmmm-- San Jose, California
-----mmmmmmmm- mcronenw@pyramid.com KA7ULD(@N0ARY.#NOCAL.CA.USA.NA)
*****
```

From qrp-request@Think.COM Wed Nov 17 17:10:36 1993
Date: Wed, 17 Nov 93 16:16:30 CST
From: cieslak@cgc9.eda.mke.ab.com (Brian Cieslak)
Subject: NAFTA

----- Begin Included Message -----

From qrp-request@Think.COM Tue Nov 16 08:14:32 1993
Date: Tue, 16 Nov 93 07:14:18 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: Name the Rig

Gang,

I never thought much about the name. NN1G came out with the
NN1G Mark II, which I assume will be in the next issue of the
quarterly due out in January 1994. I don't know if you realize

it, but it's about time for another year to be down the tubes. :-)

Everybody seems to be naming rigs after their call signs. Guess it gives them immortality or something like that. I open to suggestions. For now I'm thinking of calling it the K5F0+1, cause the K5F0-1 (is that K5F0 one? K5F0 minus one?). Or maybe the K5F0.1 pronounced "K5F0 dot 1". Great minds are working on this one. :-) OK, average minds are working on this one.

I'll make the PostScript copy of the PC board available, so you hackers can have fun. I'm shooting for 3.5x4.5" board size. All resisitors laid out flat for the newbies and all the same length, so if you wanna use the resistor guide, you know - the red triangular critter that allows to fold the leads over to a specified length, but I find that boring and can look at two holes on a board and fold the leads perfectly everytime. That's when you know you've built too much. :-)

MY favorite two tools. A pair of diagonal cutters ("dikes", but isn't that a term used for something else nowadays?) from Sears. These allow me to cut leads off the board as close as I want, and I mean CLOSE. A pair of chain-nose pliers. These are the very very pointed and small pliaris used for bending leads, getting critters that you've dropped out of the far corners of rig. It seems that dropped parts follow Murphey's Law - where can I hide or lodge myself where the owner will expend the most time, energy, and effort to get me loose?

OK, back to my vacation.

73 dit dit

SIG

-----cut here-----

Chuck Adams, K5F0 - CP60

adams@sgi.com

QRP ARCI Awards Chairman

From qrp-request@Think.COM Tue Nov 16 11:33:02 1993

Date: Tue, 16 Nov 93 08:30:17 PST

From: mont@ibmmail.COM

Subject: Re: Name the rig

I thought "K5F0 Special" was a pretty good name. :)

km6wt

From qrp-request@Think.COM Tue Nov 16 06:56:44 1993
Date: Tue, 16 Nov 1993 06:56:25 -0500
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: Naming the K5FO Special

Well I gotta give Chuck a little credit!
He wants to let us people that want to make p.c. boards happy
even if he doesn't necessarily agree with the process!
As I told Chuck, rumors must not be true, there is some kindness
in that Texan blood somewhere. %:-)

I think that's a good qrp spirit to bring this k5fo sp-1 into light.
btw is that the correct designation for this rig?

73 all Brad WB8YGG

From qrp-request@Think.COM Mon Nov 8 18:26:26 1993
Date: Mon, 8 Nov 93 15:27:35 PST
From: Raymond.Anderson@EBay.Sun.COM (Ray Anderson)
Subject: NEC parts source

Doug, N4IJ writes:

>I'm in the process of building a cw/ssb transceiver designed by w7zoi. I
>think it is from qst a year or two ago. I'll see you on ssb when I get it
>built (if ever). Along those lines, it has an I.F. amplifier by NEC. The
>exact type I can't remember (NEC 99 something). Anyway, any of you QRPers
>know where I can get NEC parts? Not just for this, but future projects also.
>Seems like this group is mainly related to operating rather than building???

> Regarding the SS contest. I did as poorly as any. I got on 20 meters
>cw and produced 14 contacts with 3 watts.

> Doug, N4IJ

Regarding the source for NEC parts, I've had good luck with
CEL (California Eastern Labs) who is NEC's US distributor.

Their main phone # is (408) 988 3500 in Santa Clara, Calif. Down in
4-land you might try (404)446-7300 in Norcross, GA or (813) 347-8066 in
St. Petersburg, FL.

Don't know what their policy is these days on small quantity
orders but I bought in quantities of 10-20 before with no problem. They
also seem to be pretty liberal with their samples... especially if they

sense a bigger order.. Good luck.

BTW: No, I don't work for NEC or CEL or have stock in the company.
Just a user of their products.

Ray WB6TPU

raymonda@uranium.ebay.sun.com

From qrp-request@Think.COM Mon Nov 8 22:51:08 1993
From: andrews@fms.com (Andrew Sargent N80FS)
Subject: Need qrp Schematics (please)
Date: Mon, 8 Nov 1993 22:49:17 -0500 (EST)

Hello group or gang,

I have a copy of the colorburst xtal qrp xmitter and the 2m qrp
xtal xmitter using 72 Mhz rocks.

I want more schematics and paperwork for qrp rigs. I gave a copy
of the above mentioned qrp rigs to K8TV (the pres of a local club)
and he was so impressed he built the colorburst rig in 10 minutes
while I was standing there and had it working (he didn't work anybody
though).

Anyway, please, please, please send me schematics and directions of
qrp rigs all of us can build. This is a good way to get No-Coders
to build something rather than talk on their HTX-202's without knowing
the first thing about RF!

I'll try to send a copy of the newsletter with the rig in it to the
originator or sender.

Damn, I'm long winded...

--

Tell Me Something I Don't Know,	! HAM	=	N80FS
Show Me Something I Can Use,	! ARMY MARS	=	AAN5HJT
Push The Buttons,	! CB	=	THE NEON KNIGHT
Connect The God-Damn Dots!!! - Ministry	! HACKER	=	TH3 N30N KN16Ht

From qrp-request@Think.COM Wed Nov 17 13:24:10 1993
Date: Wed, 17 Nov 93 13:24:18 -0500
From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;653 CCSG/SCT)
Subject: New Product Ideas

While waiting for the 4 o'clock bell, I have been trying to figure out
new products for the radio amateur... Check these out and help me

see if there would be a market..

1. Electronic Turns Counters -- Since mechanical turns counters are getting expensive, how about a counting circuit, triggered by a collar on the shaft, feeding a 2 digit LCD display. Should be cheap enough.. Works for Antenna Tuners, Linear Amps, etc.
2. Coil winding jigs/kits. Set of coil winding forms, assortment of wire, and software. Input required inductance, current, etc. System says take form B, Wind 26 turns of Wire C. Spacing established by selecting the correct form..

More?

Larry, KQ4BY

From qrp-request@Think.COM Wed Nov 17 15:38:13 1993
Date: Wed, 17 Nov 93 15:34:00 EST
From: mallick@ausable.crd.ge.com (John Mallick)
Subject: New Product Ideas

Date: Wed, 17 Nov 93 13:24:18 -0500
From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;653 CCSG/SCT)

.....

1. Electronic Turns Counters -- Since mechanical turns counters are getting expensive, how about a counting circuit, triggered by a collar on the shaft, feeding a 2 digit LCD display. Should be cheap enough.. Works for Antenna Tuners, Linear Amps, etc.

.....

Larry, KQ4BY

Mechanical turns counters have non-volatile memories. How about yours? You really need some sort of absolute encoder, so you can always go back to zero as well as tell the direction of rotation. But, since it is only one count per turn, it could be cheap.

John WA1HNL

From qrp-request@Think.COM Wed Nov 17 15:47:06 1993
Date: Wed, 17 Nov 93 15:46:08 -0500
From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;653 CCSG/SCT)
Subject: Re: New Product Ideas

In your message of 17 Nov 1993 at 1538 EST, you write:

> Date: Wed, 17 Nov 93 13:24:18 -0500
> From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;653 CCSG/SCT)

>

>

> Mechanical turns counters have non-volatile memories. How about
> yours? You really need some sort of absolute encoder, so you can
> always go back to zero as well as tell the direction of rotation. But,
> since it is only one count per turn, it could be cheap.

>

Yep. That was one of my thoughts. But, if the device only uses a miniscule amount of current, you could just leave it on, all the time, like my watch..

Guess you would still need a reset button, for when you change the battery every five years...

73,

Larry

From qrp-request@Think.COM Wed Nov 17 16:58:34 1993

Subject: Re: New Product Ideas

Date: Wed, 17 Nov 93 16:56:39 EST

From: "John F. Woods" <jfw@ksr.com>

Actually, I think you can get serial EEPROMs for a couple of bucks. Of course, you need careful power-sequencing logic so you can avoid using up the ~10,000 write limit too quickly (ie only write when power goes away).

From qrp-request@Think.COM Wed Nov 17 17:01:39 1993

From: lbrunson@rodgers.rain.com

Date: Wed, 17 Nov 1993 13:12:39 PDT

Subject: Re: New Product Ideas / Turns Counter

| From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;653 CCSG/SCT)

| While waiting for the 4 o'clock bell, I have been trying to figure out
| new products for the radio amateur... Check these out and help me
| see if there would be a market..

|

| 1. Electronic Turns Counters -- Since mechanical turns counters
| are getting expensive, how about a counting circuit, triggered by a
| collar on the shaft, feeding a 2 digit LCD display. Should be cheap
| enough.. Works for Antenna Tuners, Linear Amps, etc.

|

I use an old calculator with an external switch connected to the '+' key... (different calculators may require attachment to different keys). Then I push the number one and whenever the switch activates it adds one to the display. Of course, you could use different numbers if you wanted. There are lots of neat ways to expand this idea.

Lowell Brunson (503) 681-0417
Rosenet: lbrunson@roland.co.jp
Internet: lbrunson@rodgers.rain.com (preferred)
lowell@techbook.com
Packet Radio: KC7DX@K7IQI.OR.USA.NA

From qrp-request@Think.COM Wed Nov 10 07:39:19 1993
Date: Wed, 10 Nov 1993 07:38:51 -0500
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: nn1g artwork

I'm not at work today but I figured I better say this to those of you that asked, I'm not sure if nn1g is making the artwork in the public domain or not. Also, I really don't feel that I can give the artwork out, because I didn't make the initial contact with nn1g myself. I guess he had a heck of a signal with his homebrew qrp rig on s.s. Anyway, I don't know what to do, other than possible having my friend write him a note to see what the scoop is. Maybe that's the way to go about it? 73 all, fer now, and if I find out anything, I'll let you know.

Brad WB8YGG

From qrp-request@Think.COM Tue Nov 9 19:21:57 1993
Date: Tue, 9 Nov 93 18:20:36 CST
From: msdooley@rockdal.aud.alcatel.com (Michael S. Dooley)
Subject: NN1G Mark II

I'd like the art work, too! Would be nice to see and I'd like to try my hand at making boards, etc. How bout it? Is it a possibility?

Mike Dooley
Mike Dooley KE4PC
Internet: msdooley@rockdal.aud.alcatel.com
mail: 202 Lavon Shores Drive
Princeton, Texas 75407

From qrp-request@Think.COM Tue Nov 16 16:48:03 1993
Date: Tue, 16 Nov 93 15:47:43 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: NN1G Mark II

To run this on 90-135vdc, ADD a series resistor 330k from --o + to the B+ in the radio.(Now Zenith Transoceanics can get CW & SSB!)

To run this on 135-250vdc make the resistor be 680k 1 watt
That Emitter wire...to be insulated....wrap around last the last IF transistor...or tape it to the ckt board on the IF amps' ckt to provide enough coupling.

Adjust its position to get enough signal, so SSB sound right, and not all distorted when strong sig comes along.

To get +/- BFO tuning, replace the 470pf cap going to gnd, with a twin gang cap 266pf each side...Mouser #24TR218 (get also2 #48SS003 screws) and wire it to be 513 pf.
Add paralell to it, 180pf
Tune range will be limited.

If you don't like that, then do this:

replace both 470pf with 330pf and wire the tune cap so its common connection goes to the emitter and its 2 end connects go to gnd and base.

This means now having the tune cap 'above gnd' so must be run with a plastic knob and mtg to non metal.

Tune range will be a bit more and will be less likly to stall.

There are no other adjustments needed to be done.

Randy KA1UNW	If you get a shock while	
randy@192.153.4.200	servicing your equipment,	"Works for me!"
	DON'T JUMP!	-Peter Keyes
	You might break an expensive tube!	

From qrp-request@Think.COM Tue Nov 9 09:30:15 1993
Date: Tue, 09 Nov 1993 08:31:07 -0600 (CST)
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: NorCal 40

Yeah,

finally got my kit last night. Tell ya guys and gals.. I am impressed.
Wish I could get this group to move to Tenn. I would give anything to

have a QRP group here.

The case and silk screened board looked better than some of the so called professional. The docs were real nice (except for the part id sheet). I was originally going to build this for a local new ham (who I have already loaned a whole QRP set up).. may have to keep this.. can't believe how small it is.. just happen to have a nice labelling machine at work also.

Thanks guys.. sure glad that a hick from the sticks in Tenn. is able to be part of the NorCal group.. may have to plan a family vacation out there and then head for Oregon.. hard part would be bringing all my kits and arranging it so I get to attend a real QRP club meeting.

What about it guys.. Tennessee is a great place to live.

72

Jeff, AC4HF

From qrp-request@Think.COM Wed Nov 10 08:59:20 1993
Date: 10 Nov 1993 08:53:42 +0000
From: "Bob Scott" <Bob_Scott@cpqm.saic.com>
Subject: NORCAL 40

NORCAL 40

Received my NorCal 40 yesterday in a plain brown wrapper. I have not decided whether to build it this weekend or take it to Scouts next week, and begin building it there. Maybe I can generate some interest in the Radio Merit Badge and Ham Radio in general. It will be difficult to wait until then. Maybe I should have bought 2 of the units.

I would like to echo Jeff Gold's comments about the NorCal QRP club. What you guys and gals are doing is really exciting and I appreciate being allowed to be a small part of it.

73

Bob
AC4Q0

From qrp-request@Think.COM Fri Nov 12 09:40:42 1993
Date: Fri, 12 Nov 93 08:39:01 CST
From: msdooley@rockdal.aud.alcatel.com (Michael S. Dooley)
Subject: NorCal 40

>> I'd like the art work, too! Would be nice to see and I'd like to

>> try my hand at making boards, etc. How bout it? Is it a possibility?
>> Mike Dooley
>> Mike Dooley KE4PC
>> Internet: msdooley@rockdal.aud.alcatel.com
>> mail: 202 Lavon Shores Drive
>> Princeton, Texas 75407
>>
>Well, I don't really have the authority to do that. If you want to
>get something in writing from nn1g about putting it on an ftp site,
>then we can, but I really don't have authority to give it out any further
>than what our club member had talked to nn1g about. I'' bet he doesn't
>care, but can't take a chance!
>
> 73 Brad

No problem, Brad. I'll try to get with him or one of the others at
the NorCal club. Based on everyones raves about the original, the new
one is probably four or five degrees past fabulous! <grin>...
Take care!

Mike Dooley KE4PC
Another Native born Texan!
(gosh, Mr. Dillon, where'd ya' get the four call?)

From qrp-request@Think.COM Fri Nov 12 17:40:36 1993
Date: Fri, 12 Nov 93 16:40:19 CST
From: msdooley@rockdal.aud.alcatel.com (Michael S. Dooley)
Subject: NorCal 40

Wayne,
Regarding my faux faux about the NorCal 40... oops... I meant the
NN1g and got confused. Since I don't know the fellow, is there a timetable
for the release of it as a kit?
Mike Dooley
KE4PC
msdooley@rockdal.aud.alcatel.com

From qrp-request@Think.COM Wed Nov 17 09:36:06 1993
Date: Wed, 17 Nov 1993 08:37:48 -0600 (CST)
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: NorCal 40

forgot,

one more question.. how critical is the value of RFC1.. think I am off
in value by several thousand percent at this point.. ran out of
chokes..need to order some and a few more ne602s

72

Jeff, AC4HF

From qrp-request@Think.COM Sun Nov 14 22:36:17 1993
From: rich@mulvey.com
Subject: Norcal 40 completed
Date: Sun, 14 Nov 1993 22:32:20 -0500 (EST)

Well, I got my Norcal 40 kit in the mail on Friday. After sorting out the parts, it took me a total of about 5 hours to build it for the Novice band. I hooked it up, and the receiver worked immediately, with about a 35 KHZ band spread. I tried the transmitter - no go. An hour later, I discovered that I hadn't stripped the insulation from one of the transmit-mixer toroids completely. :-(Once I got THAT fixed, everything worked fine - about 2 watts out. I haven't tried any QSO's yet, since the antenna connection at this point consists of me pressing the PL-259 up against the BNC connector. :-) The Troubleshooting section and schematic were infinitely helpful.

My first impression is that the sensitivity of the kit is pretty good - I could hear anything that I could pick out on my MFJ rig, with the exception of the very weakest signals. As I haven't completely aligned it yet, that may change, too. The transmitted signal has a very nice note to it.

I'll provide some further comments after I actually get the rig on the air after work tomorrow. Look for N2VDS on the air. :-)

- Rich

From qrp-request@Think.COM Sat Nov 6 10:11:18 1993
Date: Sat, 6 Nov 93 07:10:41 PST
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: NorCal Meeting

This is the weekend for the NorCal QRP Club meeting. It is at the "California Burger Restaurant" at the Santa Rita Exit on I-580 West of Livermore. Meeting starts at 11:00. Ends ????. bring your NorCal 40 and show us your work. I will miss the meeting as I have to take my daughter to Arcata to visit Humboldt State U. She is a senior and I promised her that she could pick the weekend to visit. She chose this one. Darn. But, my NorCal 40 will be at the meeting, it has a gold case, light yellow panel, and rub on lettering. Also, pre publication copy of Issue #3 of QRPp will be there for you to preview. CUL,
72, Doug

From qrp-request@Think.COM Thu Nov 11 15:34:02 1993

Date: Thu, 11 Nov 93 20:15:30 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: NorCal40

If you've used or heard this rig on the air, please
send email to rschetgen@arrl.org and tell Bob, KU7G
what you think of it. Thanks!

72, Jim, KR1S

From qrp-request@Think.COM Mon Nov 8 16:28:27 1993
Date: Mon, 08 Nov 1993 15:29:31 -0600 (CST)
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: other opinion

> > Says WB8YGG:
> >
> > >My opinion, and mine only...
> > >I bet if the league was publishing this
> > >magazine, that all that ordered would have it. 73 Brad WB8YGG
> >
> > Maybe so, but would it have anything in it of value? :-) :-) :-)
> >
> > Duane
> > WB9OMC
> >
> >
> Good Point! Lately I haven't got too much from QST, but I haven't
> written much lately either. hi hi..
>
> 73 all.. Brad WB8YGG chirp chirp

Well started out and wrote a note, then scratched it. I love to read ham
radio magazines, or use to. I use to enjoy CW and 73.. I won't renew
either. I find that MUCH (not all) of what in them is garbage. Many of
the regular columns are written off the top of the author's heads and
read about the same. I must have missed a significant part of my Ham
career because I just am not in love with Baluns, don't like to read
about them.. but most of CQ in the last year is about baluns. The packet
section is a bunch of bunko.

I may not be interested in everything or anything in a few QST issues in
a row, but get my money's worth from the league on the magazine alone. I
think the publication is a lot more professional and much more time and
effort goes into. Much of the CQ and 73 is of lower quality writing. I
think a given author can spend an hour on an article for 73 or CQ that

wouldn't come close to being published in QST.

I liked QST so much that it became a goal to get something in the magazine. If I had my choice of spending 3-6 months developing an article QST is always my first choice for getting it published.

Now don't get me wrong... there is a LOT of GOOD stuff in CQ and 73.. but not anywhere near as regular as in QST.

Well thens my opinion... should learn to keep my mouth shut..but somehow the little dig about QST really got my goat.

72

Jeff, AC4HF

From qrp-request@Think.COM Tue Nov 16 23:40:19 1993
From: "Webb, Ted" <TWebb@dev2.clemsonsc.NCR.COM>
Subject: Personal Info
Date: Tue, 16 Nov 93 16:54:00 PST

NAME: Ted Webb
Call: AC4CS
EMail: TWebb@clemsonSC.NCR.COM
QRP RIGS(s): None at present but lots of wires
Interests: building small projects, designing operating aids, antennas, chasing DX
Comments: New to QRP - looking for starter projects for portable operation

From qrp-request@Think.COM Wed Nov 10 17:50:58 1993
Date: Wed, 10 Nov 93 12:50:39 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: project 7 problem

Something is bothering me concerning the circuit of project 7 (15 watts on 80/40). Notice that the collectors of Q3 and Q4 are tied together; does that seem normal to any of you designers? In all the other circuits the collector represented the output - here the collectors aren't tied to anything else.

Jeff NH6IL

From qrp-request@Think.COM Tue Nov 9 00:12:29 1993
Date: Mon, 8 Nov 93 19:12:16 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: projects 1-10

This is embarrassing to ask: I have deleted all 10 projects that I earlier posted (gad, all that work!). If any of you have saved them would you please send me any and all? I am constantly getting requests for them.

Thanks so much.

Jeff NH6IL

From qrp-request@Think.COM Tue Nov 9 14:32:24 1993
Date: Tue, 9 Nov 93 9:32:11 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: projects 1-4

Let there be no doubt as to the HUGE readership of this list!! My mailbox was flooded with copies of those qrp projects. You guys are great! If any new readers want copies of these cheap, easy to built QRP transmitters send me a note and I'll pass along the circuits.

JEFF NH6IL

From qrp-request@Think.COM Wed Nov 10 14:34:47 1993
Date: Wed, 10 Nov 93 9:33:40 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: Projects 5-10

First, I'd like to point out that Barry's comments were much appreciated; these designs are close to 30 years old. Many of the semiconductors are just not available now. But part of homebrewing is learning about the characteristics of each component and learning to make substitutions. Folks are building these and having success (and fun).

What I feel is a more important reason to post them is the historical context they represent. These books (which contain these projects) were one of the first transistor projects books to be published. Actually, more than half of the projects contain tube-type circuits, so tubes were still in use by homebrewers in the late 60's. With today's everything-on-a-chip technology, it's rare to see such simple, discrete-component circuits. I enjoy just reading the schematics of these projects.

Be that as it may (whatever that means), here's the remaining projects.

Jeff

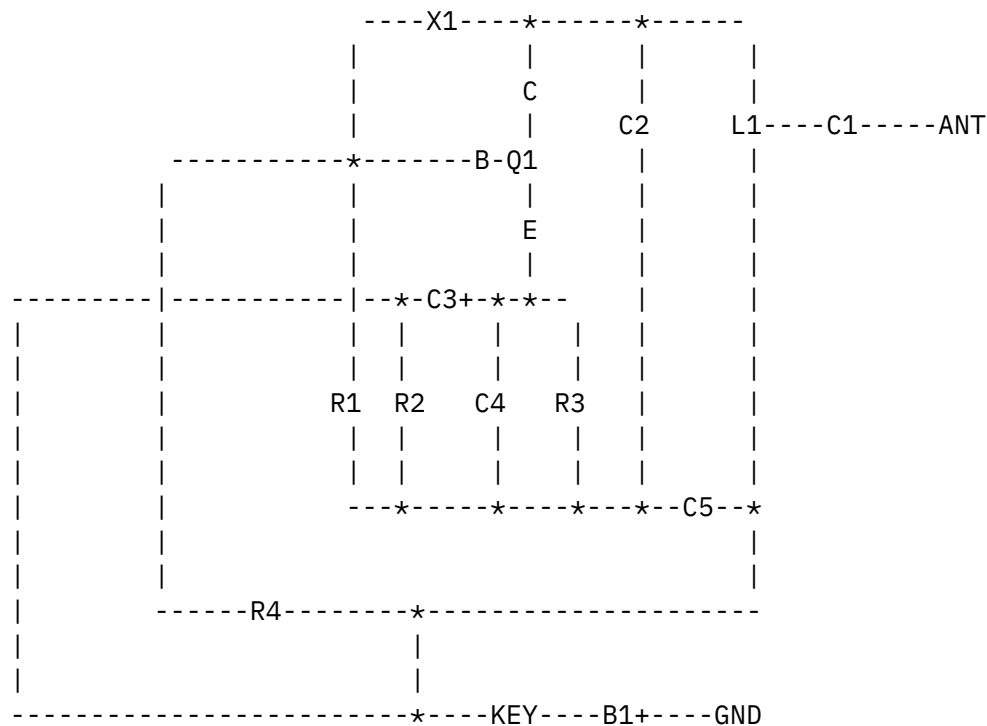
Subject: Project 5: 15 meter CW xmtr

Here's a one transistor flea-power CW xmtr for 15 meters (I'll provide a 2 transistor 1 watt xmtr as the next project for those of you who want to run high power on 15M...)

To tune-up the xmtr, just peak C2 for maximum signal on your receiver's S meter.

Parts list:

Q1 2N373 transistor
 C1,5 4700 pF capacitor
 C2 3-30 pF trimmer
 C3 30 mF
 C4 1000 pF
 R1 10K resistor
 R2,3 510 ohm
 R4 50K
 B1 9 VDC battery
 L1 17 turns B&W 3007, tapped 8 turns from C5 end
 X1 21 mHz fundamental 3rd overtone crystal



Note the battery's polarity. Recall that * indicates a junction of 3 or

more wires; there are 2 jumps - one from R4 and the other from R1.
Sorry, only straight keys can be used in this xmtr...
Credit goes to Bert Simon, W2UUN, and his book, 104 HAM RADIO PROJECTS.

Jeff NH6IL

Jeffrey Herman, University of Hawaii Mathematics, jherman@Hawaii.Edu

Subject: Project 6: 80M QRP 'colorburst' CW xmtr

Keywords: cheap, cw, fun

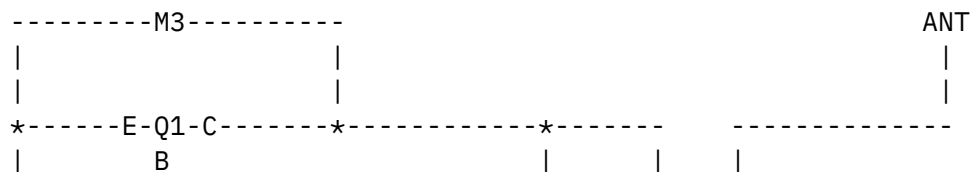
Gang,

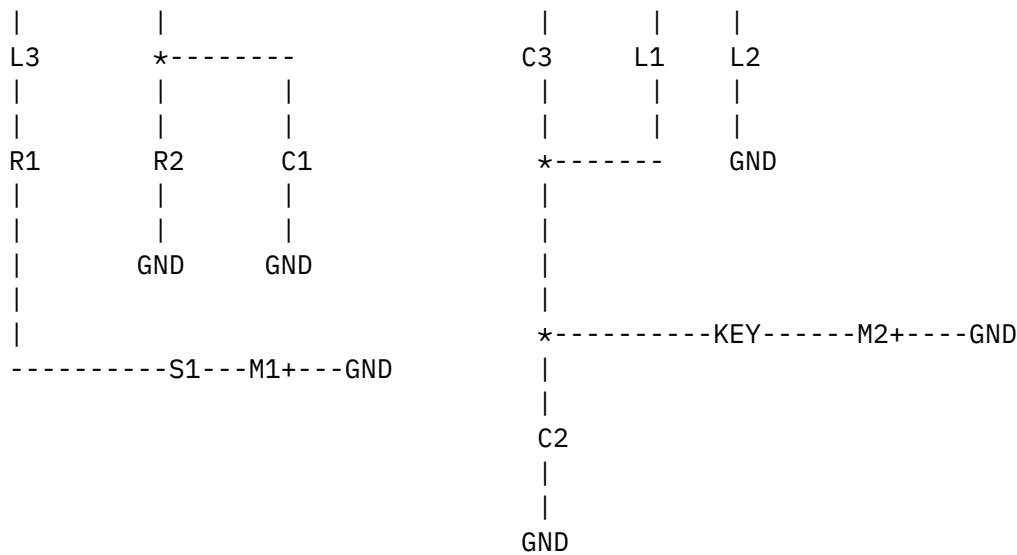
In preparation for tomorrow's 80M QRP Colorburst Contest, here's a quick 80M xmtr you can throw together in 5 minutes; the 3579 kHz xtal comes, naturally, from the colorburst oscillator board in your color TV (if you've got a junked TV, or if you think TV only contains junk, yank the xtal out).

The rf output is not much - about 25 mw. Tuneup is simple: just bring a field strength meter into vicinity of L1/L2 and tune L1 for peak deflection of the meter. If you really want to get fancy, you can substitute a 100 pF variable for C3 and optimize a bit further; this involves a bit of experimentation to determine a 'norm' setting for L1/L2. After this has been established, all further tuning can be accomplished with C3.

Parts List:

C1 .047 mF capacitor
C2 .0015 mF
C3 100 pF
L1 18 turns of No.30 wire closewound on 3/8 in. diameter slug-tuned form
L2 5 turns of No. 30 closewound around middle of L1. Experiment with position of this coil over L1; in some circuits performance will be increased by moving L2 towards cold end of L1. Once exact position has been determined (with ant. hooked in and FSM for monitoring), glue in place.
L3 2.5 mH rf choke (National R-100 or equiv.)
M1 3 volt battery
M2 6 volt battery
M3 80 meter xtal
Q1 HEP-2 transistor
R1 330 ohm resistor
R2 27K resistor
S1 spst switch





Note the polarity of M1 and M2. Hope to hear some of you on the 'official colorburst frequency' of 3579 kHz!

Jeff NH6IL

Jeffrey Herman, University of Hawaii Mathematics, jherman@Hawaii.Edu

 Subject: Project 7: 15 watts on 80 and 40*
 Keywords: cheap, cw, fun

* If you are reading this on the rec.radio..homebrew newsgroup feel free to run the full 15 watts. BUT, if you are reading this on the QRP mailgroup you can only use this xmtr in the standby mode (a few milliwatts)(no fair cheating now...).

Here's the most sophisticated xmtr project so far: 15 watts output on 40 and 80 meters. There is a standby mode which keeps the oscillator ticking but cuts out the PA transistors - use this for zero-beating your rcvr to the xmtr output frequency (uh, I guess this really isn't necessary with today's receivers... This IS an old book).

The book is 104 HAM RADIO PROJECTS FOR NOVICE AND TECHNICIAN, by Burt Simon, 1968.

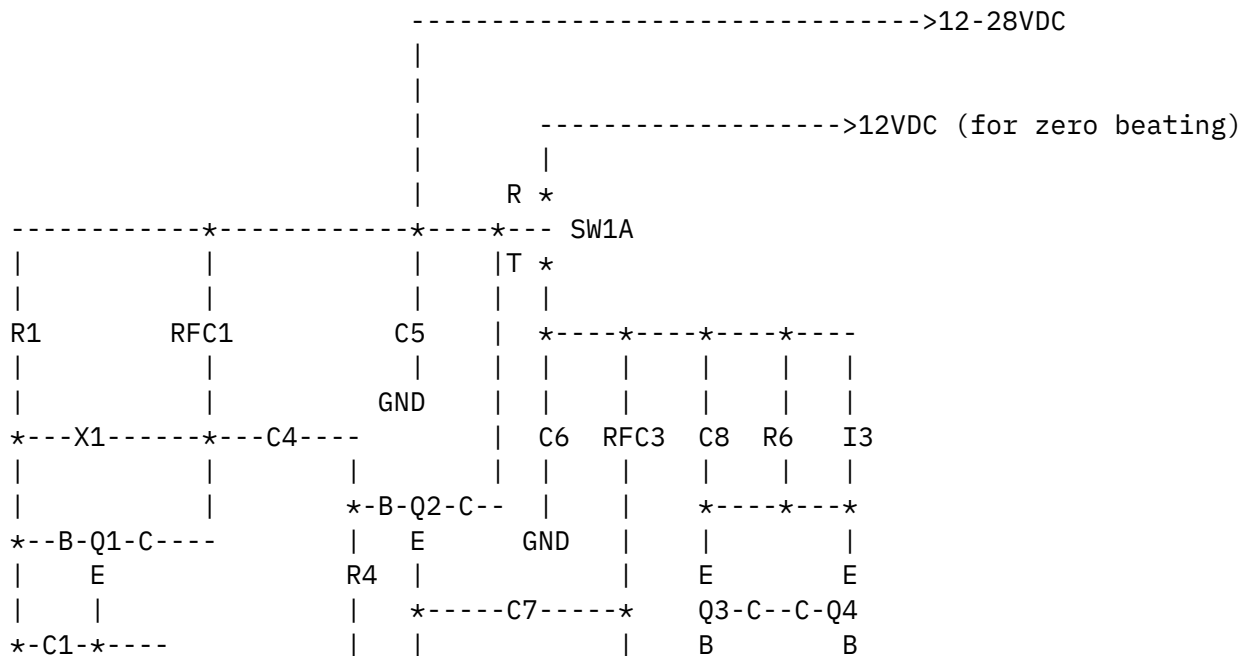
Burt says:

"RFC1 should be a low resistance; use a 1/4 inch loopstick and at least 20 turns of #28 wire or larger. No component values are critical except for the amplifier coils. The NE-2 bulb should be mounted flat against the chassis near the #49 bulb with both leads connected to the antenna lead and only stray capacitance to ground. Also be sure to use a fundamental-frequency crystal. The oscillator transistor does not need a heat sink, although you'll need a Wakefield #NF207 on the buffer transistor.

"Tuning: Only final amplifier adjustments are necessary. Tune always for maximum output, NOT MINIMUM PA CURRENT. Normal tuning of C9 and C10 should bring about a satisfactory bulb brilliance. If antennas are under 30 feet (or 1/2 wave), output capacitance will be much less and tuning capacitance more; the #49 bulb will show less current, but the neon bulb will ignite showing high voltage feed. In general, tune for maximum bulb brilliance regardless of load."

Parts List:

Q1,2 2N697 transistor; use Wakefield #NF207 heat sink on Q2
 Q3,4 PADT50
 C1,4,12 330 pF capacitor
 C2 .068 mF
 C3,5 .01 mF
 C6,8 .22 mF electrolytic, 50V
 C7 820 pF
 C9,10 365 pF variable
 C11 330 pF
 R1 27K resistor
 R2 3.3K
 R3 330 ohms
 R4 10K
 R5 100 ohms 2W
 R6 1.5 ohms 2W



C1, C2 150 pF capacitor

[illegible]

Okay, no more 80M xmtrs! I promised I'd post a 2M xmtr - I have two - neither are FM, though. I'll post them next and let you folks figure out how to FM them; shouldn't be hard at all. (Probably only the r.r.a.homebrew folks will be interested in them, but you QRP mailgroup folks might have a use for them also.)

Jeff NH6IL (ex: WA6QIJ)

Subject: Project 9: 2M CW transmitter

Here's the first of two 2M xmtrs: this one is a 2-transistor CW rig and the other is a 3-transistor AM circuit which you can FMize yourself (of course the AM xmtr can be used for CW, too). Here's what Burt Simon in 104 HAM RADIO PROJECTS FOR NOVICE AND TECHNICIAN (1968) has to say:

"Here's a dandy 2-meter CW rig that will astound the local gang. Using only 2 transistors and a 72 MHz third overtone crystal, you can practically carry the set around with you. It can be built into the tiniest of boxes and requires only a 9-volt battery to power it. At least one VHFer has worked 110 miles with this transmitter, and several (built as club projects) have been equipped with simple one-transistor modulators.

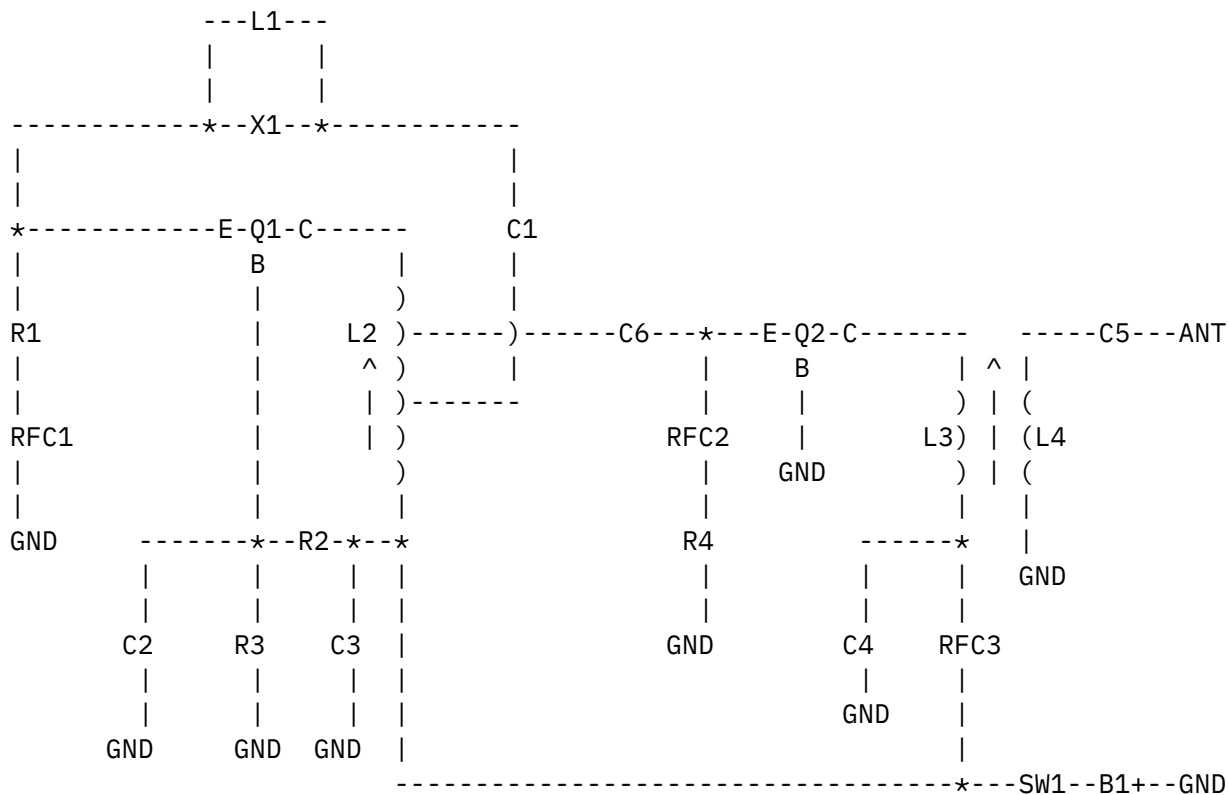
"Construction is simple, although care must be taken to insure that all leads are as short as possible. L3 should have its iron-core slug removed. The RFCs are simple 1/2 watt resistors wound full of #36 enameled wire. To check their efficiency, use a grid dip meter to see if you're anywhere near 144 MHz. If they aren't, remove or add turns until the desired frequency (should correspond with your transmit frequency) is achieved. L1 should be neutralized by winding a full solenoid of #26 wire on a 1 meg, 1 watt resistor. Leaving only about 1/2-inch of lead, solder the choke to the crystal socket. It should resonant at your operating frequency.

"Main thing is to get the crystal to oscillate. If you have trouble, adjust L2 and expand or compress the turns of L1 until you hear (using a 2-meter receiver) the oscillator harmonic. From here on in you can simply tune for maximum signal using a GDO, field strength meter, or receiver S meter."

Parts List

Q1, 2	2N1745 transistor
C1, 2	.001 mF capacitor
C3, 4	.01 mF
C5	50 pF
C6	12 mF, 5%
R1	510 ohm resistor
R2	30K
R3	10K
R4	100 ohms
B1	9vdc battery
L1	19 turns #24 enameled wire on 1 meg, 1 watt resistor
L2	9 1/2 turns #24 enameled wire on 5/16 inch slug-tuned form
L3	6 1/2 turns #24 enameled wire, spaced 1/6 inch on 5/16 inch slug-tuned form
L4	1 3/4 turns #22 enameled wire on cold end of L3
RFC1,2,3	#36 enameled wire wound (and glued) on 1/2 watt resistor. Should check to approximately 145 MHz with GDO. If it doesn't, adjust number of turns. (Ohmite Z-144)

X1 72 MHz 5th overtone crystal
 SW1 SPST switch



Notes: Observe good VHF wiring techniques (we can't be as sloppy here as we are down on the HF bands!) The positive pole of B1 goes to ground. I attempted to use arrows to indicate the adjustable coil forms. Nothing was said about the two taps coming off of L2 - you'll have to experiment as to their placement. C1 jumps over the other tap from L2.

If any of you build this pup let the rest of us know how you got it to work.... (who in the world has even got 72 MHz xtals anymore?)

Jeff NH6IL (ex WA6QIJ)

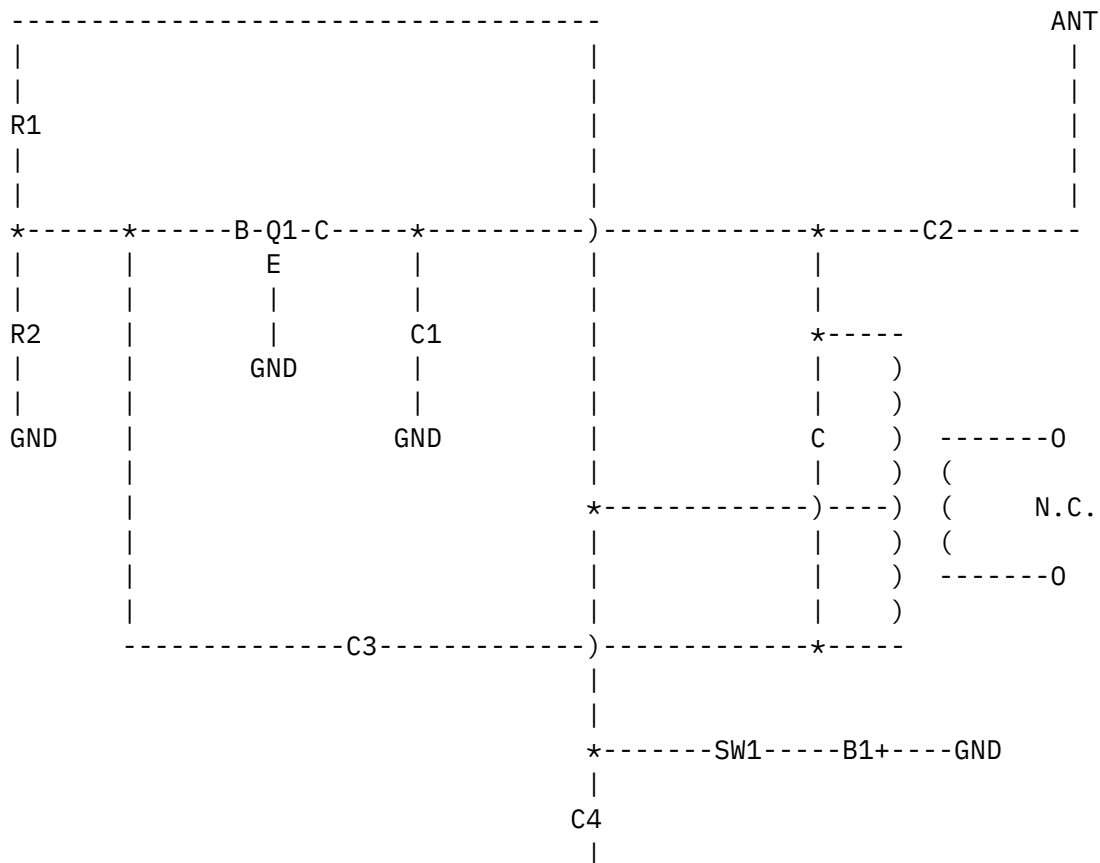
Subject: Project 10: A BFO for your \$40 SW rcvr

It seems there are quite a few cheapie shortwave receivers out there that have everything (synthesizer tuning, digital readout, fairly good specs) but lack the all important BFO to copy SSB and CW. Well, let's remedy that problem right now. The heart of this project is a 455 kHz IF transformer: go to your closest junked broadcast radio receiver and steal one from there.

If you are reading this on rec.radio.shortwave you may skip this paragraph; if you are reading this on rec.radio.amateur.homebrew or on the QRP mailgroup here's a neat idea: get one of these cheapie SW rcvrs and after installing this BFO you'll have a great companion to any of the simple transmitters I've been posting! Let's face it, xmtrs are easy to build, but rcvrs certainly require more care; for \$40 you can pick up one of these synthesized digital readout pups and have a complete backpack transmitter-receiver pair.

PARTS LIST

Q1	2N544 transistor
C1	15 pfd variable capacitor
C2	.001 mfd
C3,4	.01 mfd
R1	7.5K resistor
R2	5.1K
B1	1.5 VDC battery
T1	Miller #9-C2 IF transformer
SW1	SPST switch



GND

Recall: Q1 is marked B=base, C=collector, E=emitter; the case of Q1 MUST be grounded; GND=ground; note the polarity of B1. Now, the unmarked capacitor, C, and its associated transformer, are inside the can of the IF transformer; if you remove the can you'll see where to make the connections. N.C. means not connected - while you have the can off you'll have to cut those leads. Also, screw the tuning screw slug all the way out. After you've put everything together set C1 about midway. Adjust the transformer slug until it resonates at 455 kHz, which can be accomplished using a receiver or GDO. AS you tune the slug (using the receiver) you should hear the heterodyne note of the BFO lowering in pitch until it eventually zero-beats. Stop tuning at this point. The BFO antenna can be any piece of hookup wire wrapped around the antenna wire near (or even inside of) the receiver. Whenever you want to copy CW or SSB, merely flick on SW1.

Jeff NH6IL

From qrp-request@Think.COM Thu Nov 11 02:47:30 1993
From: jerry@tr2.com
Subject: Re: Projects 5-10
Date: Wed, 10 Nov 1993 23:42:47 +0000 (GMT)

Jeff, NH6IL writes,

>
> What I feel is a more important reason to post them is the historical
> context they represent. These books (which contain these projects) were
> one of the first transistor projects books to be published. Actually,
> more than half of the projects contain tube-type circuits, so tubes
> were still in use by homebrewers in the late 60's.

*** Jeff, This is really making me feel old! Talking about my Novice days as if they were some geologic epoch. ``Yes, in the Paleolithic, transistors had just been invented...''.

I have my good old copy of ``Ham Radio Projects for Novice & Technician'' in front of me right now. I remember drooling over every project in detail, even building a few. Like, for example, project #67, the ``Novice 807 Transmitter''. This featured a 6V6 oscillator driving an 807 final stage. Ah, the 807... I was too young to drink a nice cold 807 back then, could only build stuff with'em.

I built mine on a gutted ARC5 chassis. My first and only contact using it was with a fellow Novice in L.A. About halfway through the QSO, the

plate current started to rise... and rise.... and then smoke started coming out... My little transmitter was a victim of the dreaded 807 parasitic oscillation.

- Jerry Kaidor

```
*****
* Jerry Kaidor      jerry@tr2.com, jkaidor@synoptics.com      *
*                  KF6VB                                      *
*****
```

From qrp-request@Think.COM Mon Nov 15 21:18:53 1993
Date: Mon, 15 Nov 1993 20:52:38 -0500 (EST)
From: howie cahn <howi@world.std.com>
Subject: QRP contest operating techniques

I posed this question about qrp contest operating practices to the cq-contest reflector last week. I'd like to get a different perspective from people on this list.

Running between 1/2 and 4 watts, I'm quite a bit weaker than the 'big gun' contest stations. Particularly on weak paths, I can hear them, say, S8 to S9, while they hear me at S2 or S3. During the SS I was experimenting with different ways of sending exchanges to complete QS0's most efficiently for both of us. Conventional wisdom says not to repeat information unless asked. Under marginal conditions I tried doing the following:

- a. routinely repeating info on the first try that I thought was likely to be missed.
- b. if asked to repeat something, I'd sometimes keep repeating it until the receiving station acknowledged receipt. (I have good QSK and can hear them fine.)

I think these things helped; both in cutting down the number of fills required, and most importantly, cutting down the number of QS0's lost when the other op gave up on me.

Anyone have any opinions??

Thanks/73,

howie, wb2cpu
howi@world.std.com

From qrp-request@Think.COM Mon Nov 8 15:48:03 1993

Date: Mon, 8 Nov 93 15:47:57 -0500
From: wb9omc@ecn.purdue.edu (Duane P Mantick)
Subject: qrp in general

I have the distinct feeling that most of y'all are dedicated CW QRPers.

(and most of the construction projects I see are CW related)

Anybody out there doing SSB or FM QRP work?

Duane
wb9omc

From qrp-request@Think.COM Mon Nov 8 16:59:36 1993
Date: Mon, 8 Nov 93 16:59:43 EST
From: doug.snowden@ccd.harris.com (Doug Snowden)
Subject: Re: qrp in general

I'm in the process of building a cw/ssb transceiver designed by w7zoi. I think it is from qst a year or two ago. I'll see you on ssb when I get it built (if ever). Along those lines, it has an I.F. amplifier by NEC. The exact type I can't remember (NEC 99 something). Anyway, any of you QRPers know where I can get NEC parts? Not just for this, but future projects also. Seems like this group is mainly related to operating rather than building???

Regarding the SS contest. I did as poorly as any. I got on 20 meters cw and produced 14 contacts with 3 watts.

Doug, N4IJ

From qrp-request@Think.COM Mon Nov 8 17:36:09 1993
Subject: Re: qrp in general
Date: Mon, 08 Nov 1993 14:35:59 -0800
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

Duane (WB90MC) asks about QRP SSB or FM work.....

Just to mention, I am a fairly active QRP SSB guy, and I mostly ragchew over on 40 meters. I have occasionally gotten into the local DX WAS nets on 40 and 75 to net the awards, but love to talk more than exchange reports (but the exchanging reports is fine work too).

I have been working the Aussies and that area fairly regularly on 40 SSB with about 5 watts PEP SSB in the evenings, but the latest Santa Ana winds (that burned a lot of us out down here) took some of my wires down. I am a little underactive for the time being.

Just netted an old Argonaut 505 and will fire up that baby with a lantern battery when I get it. Listen for me around 7200-7245 after 0400 UTC.

Clark
WA3JPG

From qrp-request@Think.COM Mon Nov 8 17:36:57 1993
Date: Mon, 8 Nov 93 14:35:02 -0800
From: mcronenw@pyramid.com (Mark Cronenwett)
Subject: Re: QRP in general

Well, Duane I am one that is working on that very subject (SSB) I need a radio that I can leave in my Jeep that people would not even think of taking. I have some neat things to try, and I even have most of the parts. This is just a bad time of year for me to start building. If you have any ideas that you would like to share, or want to see mine, just give me a holler. Anybody else have any QRP SSB designs that I could use? How about plans? I need lots 'o help here.

27, Mark

```
*****
-m----- Mark Cronenwett Wk: (408)428-9000 x6978
--mm----- Technician Specialist Fax:(408)428-8855
---mmm----- Board Analysis and Repair Team Naui AI Z9697
-----mmmmmm--- Pyramid Technology Corporation
-----mmmmmmmm-- San Jose, California
-----mmmmmmmm-- mcronenw@pyramid.com KA7ULD(@N0ARY.#NOCAL.CA.USA.NA)
*****
```

From qrp-request@Think.COM Mon Nov 8 09:54:10 1993
Date: Mon, 08 Nov 93 14:43:53 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: QRP In Sweepstakes

If you didn't work Zack, KH6CP, who was masquerading at W1AW/QRP, you didn't operate Sweepstakes.

72/73, Jim, KR1S

(That's a joke, Chuck. I don't know how you could have missed Connecticut, though....)

From qrp-request@Think.COM Mon Nov 8 11:43:16 1993
Date: Mon, 8 Nov 93 10:43:01 -0600
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: Re: QRP In Sweepstakes

Jim,

Did I miss Zack or did he miss me? That guy is always at the higher frequencies. Probably scared him to come down into the IR instead of being up there in the Visible light spectrum. :-)

I was on 7.045 or thereabouts when WHAM! QST DE W1AW right in the middle of the contest.
A schedule is a schedule..... :-)

Yep, I missed CT. Next year.

73

SIG

-----cut here-----

Chuck Adams, K5FO - CP60

adams@sgi.com

QRP ARCI Awards Chairman

From qrp-request@Think.COM Tue Nov 9 16:24:38 1993
Date: Tue, 9 Nov 93 14:12:58 EST
From: Clark Fishman (FSAC-FCD) <cfishman@PICA.ARMY.MIL>
Subject: QRP Info

With everyone saying how difficult and complex SSB equipment is to build and how expensive....I say not really....I have found several SSB filters at hamfests for \$5 and \$10 and am now building up a few of the R2 and T2 boards. I am including a list of some catalogs and data books that have all kinds of interesting IC's for making radios. This is the best of times for building, lots of the work has already been done by the IC manufacture.

Here is some of my library:

GEC Plessey

Sequoia Research Park
1500 Green Hills Road
Scotts Valley, CA 95066
phone 408 438 2900

fax 408 438 7023.....Two handbooks: Professional Products
IC handbook

and :Consumer IC Handbook

Motorola Semiconductor
Marketing Headquarters
5005 E. McDowell Road
Phoenix AZ 85008
phone 602 244 6394
fax 602 244 4597

Four Books: RF Devices Data Volume 1

RF Devices Data Volume 11

CMOS Applications-Specific Standard ICs

Motorola Linear and Interface ICs

Philips Semiconductors (use to be Signetics now combined as
 Philips)
811 East Arques Aven
Sunnyvale CA 94088
phone 800 234 7381

one book...It's a goodie... RF/Wireless Communications

Chew one those puppies for a while....

Clark Fishman WA2UNN cfishman@pica.army.mil

Live long and keep your soldering hot....real hot

From qrp-request@Think.COM Tue Nov 9 19:18:36 1993
Date: Tue, 9 Nov 93 14:18:27 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: QRP projects

Stupid me! I put out a general call for those who wanted these projects only to get a flooded mailbox again (twice in one day). So, please allow me to send them over the net in two batches. What follows are the first four transmitters (projects 1-4). I'll wait until tomorrow to send the second batch (projects 5-10). New projects will follow from time to time (next up is another 15 meter xmtr - this weekend).

Jeff NH6IL

Subject: Projects 1 - 4

Subject: PROJECT 1: 40M QRP XMTR

Hi Gang,

Here is the first of many very SIMPLE QRP transmitters. I make no claims to their performance! In the next few weeks I'll give you xmtrs for 80, 40, 20, and 2 meters; most requiring 3 or less transistors. The circuits come from 2 out-of-print ham projects books (c. 1968) so I will assume there will be no copyright problems.

Project 1 is a simple 40 meter xmtr; it should only take 15 minutes to build it (if you've got the parts). I wasn't able to draw the symbol for each part on this terminal, so I put the part number in it's place. Hope you don't mind... Note that the case of Q1 should be

grounded. Here's the text for this project, taken from "101 EASY HAM RADIO PROJECTS" by Robert M. Brown, k2zsq/w9hbf and Tom Kneital, k2aes/wb2aai:

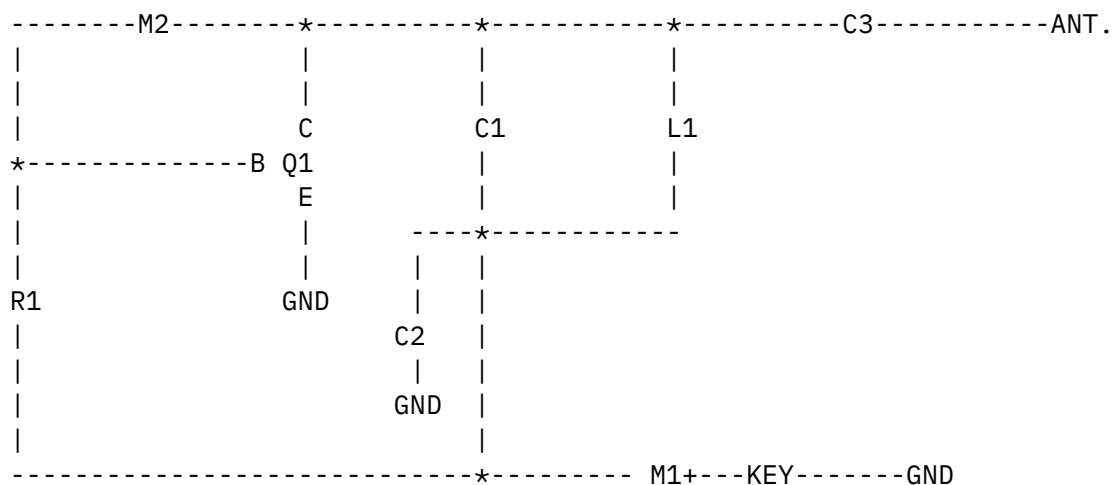
"Want to really shake up your next contact? Just tell him you are using this one-transistor CW rig! Most Novices and other hams shy away from these little gems thinking they are hopelessly underpowered. Not so! More than 50 contacts - all located over 75 miles distant - have been logged with this rig connected to the backyard longwire!

"Construction is quite simple and, in fact, there is not much to say about it. Reason: there isn't very little that can go wrong!

"L1 should be adjusted for maximum deflection on an FSM as the key is depressed. Crystal should be a fundamental frequency type for 40-meter operation."

Parts list:

C1 68 pF capacitor
 C2 .015 uF capacitor
 C3 10 pF capacitor
 L1 25 turns of No. 26 enameled wire wound on a 3/8 in. slug-tuned form (National XR-91 or equiv.)
 M1 4.5 volt battery
 M2 40-meter fundamental freq. crystal
 Q1 GE-9 transistor
 R1 91K resistor



That's it! Note that GND = ground (and note the polarity of M1). For Q1, I've labelled its leads B = base, C = collector, E = emitter. * indicates a junction of 3 or more leads. Remember, no flames if it doesn't work; I'm just the messenger!

Project 2 will be an 80M VFO QRP xmtr; stay tuned. (Oh yes, there IS a 2M xmtr on the way).

Jeff, NH6IL

Jeffrey Herman, University of Hawaii Mathematics, jherman@Hawaii.Edu

Subject: Project 2 - 20 meter QRP CW xmtr

Here's the second QRP project taken from 101 EASY HAM RADIO PROJECTS, by Robert Brown and Tom Kneitel; again, since the book is out of print, I assume there will be no copyright problems...

This project is a simple 20 meter CW xmtr with output about 100 mw (?). Here are the authors' comments:

"If you have always wanted to try low-power on 20 meters, here is an excellent method for joining the growing ranks of flea-power addicts - and doing it inexpensively. This circuit is capable of world-wide QSO's, given the right conditions and assuming QRM is not present.

"The transmitter uses a pair of GE-1 universal replacement transistors in a unique circuit configuration a great more sophisticated than you would normally expect for an under-one-watt rig. Crystal can be a fundamental 14-mHz type.

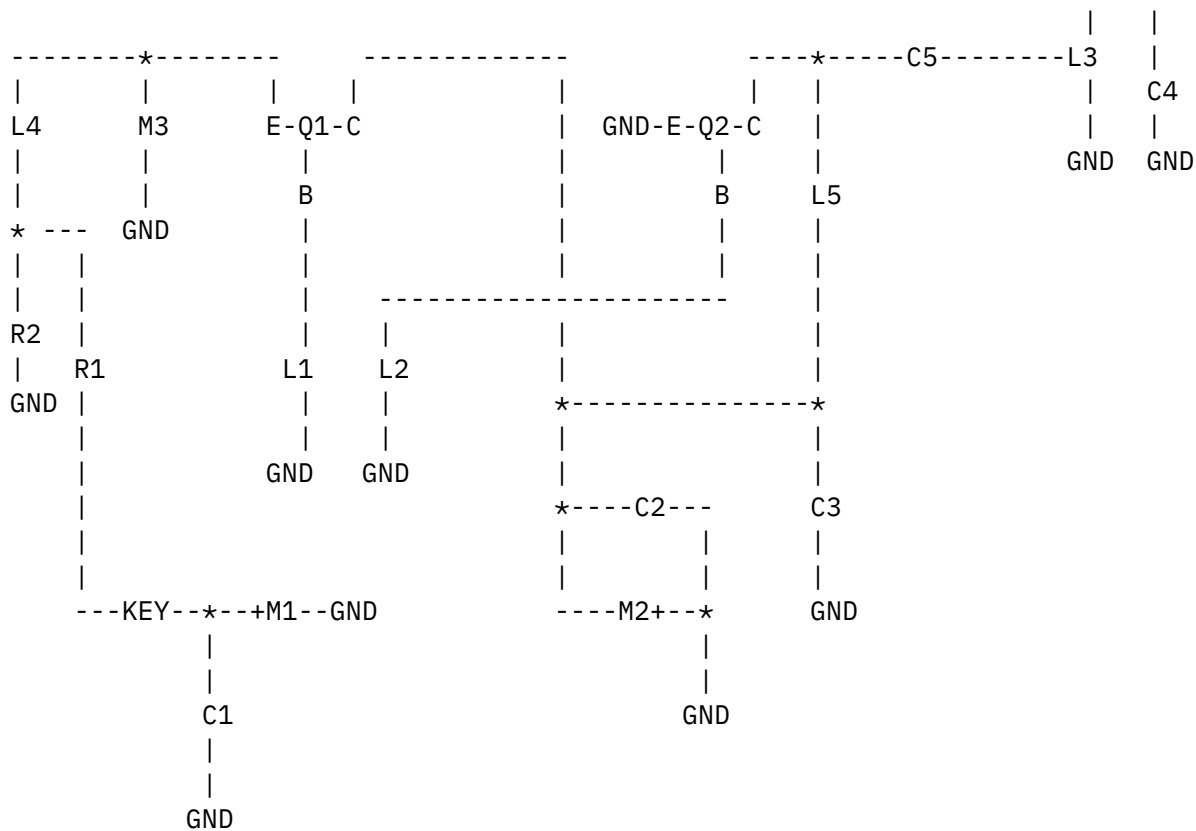
"L1 should be adjusted for sure-fire oscillation every time the key is depressed. C4 is simply adjusted for maximum output on the FSM."

PARTS LIST:

C1, C2	.02 uF capacitors
C3, C5	.002 uF capacitors
C4	51 pF variable capacitor
L1	38 turns of No. 22 enameled wire on a 1/2 in. diameter slug-tuned form
L2	8 turns of No. 22 enameled wire wound over cold end of L1
L3	Coil, 17 turns of Air Dux 616T (or equiv.) tapped 5 1/2 turns from cold end
L4, L5	2.5 mH rf choke (National R-100 or equiv.)
M1	1.5 volt dry cell
M2	6 volt battery
M3	14 mHz crystal
Q1, Q2	GE-1 transistors
R1	180 ohm resistor
R2	1.1 megohm resistor

As before, rather than trying to 'draw' the symbol for each component, I've just inserted the part number. Oh, note the polarities of the batteries M1 and M2. GND = ground, ANT = antenna, E = emitter, ANT C = collector, B = base, KEY = well, this is a CW rig....

|
*----



Note that the collector of Q1 'jumps' over the hot end of L2; this is the only jump. * = a junction of 3 or more leads.

.... .- ...-- ...- -. !

Jeff, NH6IL

Jeffrey Herman, University of Hawaii Mathematics, jherman@Hawaii.Edu

 Subject: Project 3: 80M xmtr with VFO

Hi Gang:

An opinion from someone at our law school is not to worry about any copyright violations; email me for full details.

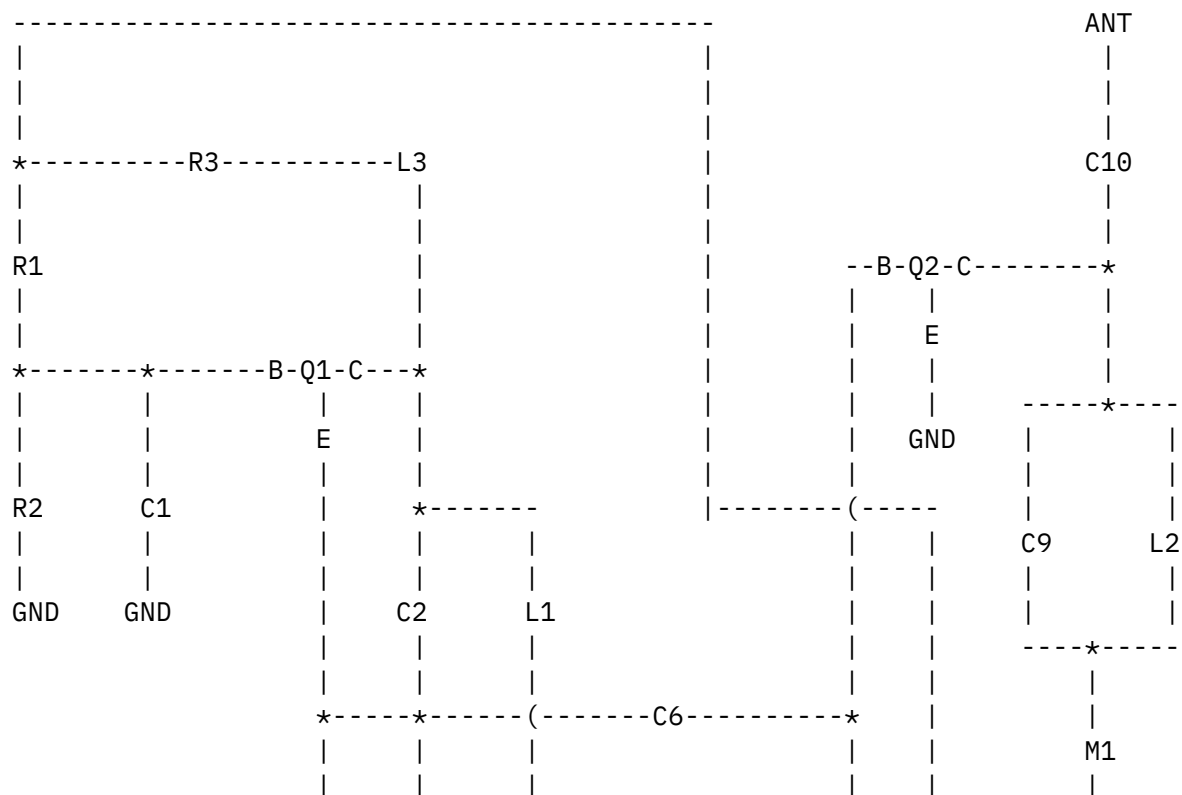
This week we have an 80 meter 1/10 watt output xmtr with a VFO! Not too many of us still have a drawer full of xtals (gave all my away when I sold my DX-60).

Construction is pretty straightforward. C5 is the VFO-frequency-adjust control, while C4 acts as a preset calibrator. Output is governed by setting of C9.

It is most important to shield the VFO section entirely (including Q1); this will prevent hand capacitance from pulling you off frequency.

PARTS LIST

C1	.002 uF cap
C2	500 pF cap
C3	1000 pF cap
C4	15 pF variable cap
C5	51 pF variable cap
C6	100 pF cap
C7, C8	.015 uF cap
C9	76 pF variable cap
C10	.0015 uF cap
L1	57 turns of Air Dux 832 (or equiv.)
L2	35 turns of B&W 3016 (or equiv.)
L3, L4	2.5 mH rf choke (National R-100 or equiv.)
M1	0-15 dc milliammeter
M2	12 volt battery
Q1	2N744 transistor
Q2	2N852 transistor
R1	120K resistor
R2	100K resistor
R3	2.2K resistor
R4	2.4K resistor



C1, C2	4 uF, 15 VDC electrolytic caps
C3	100 pF
C4	.015 uF
C5	180 pF
L1	Vari-loopstick (WRL 10M162 or equiv.)

The diagram shows a 2nd-order Butterworth low-pass filter circuit. The input is labeled MIC. The circuit consists of a series capacitor C1, followed by two parallel resistors R1 and R2 connected to ground. This is followed by a series capacitor C2, then two parallel resistors R3 and R4 connected to ground. Next is a series capacitor C3, followed by two parallel resistors R5 and R6 connected to ground. Finally, there is a series capacitor C4 connected to ground. The output is taken from the node between C3 and C4. The circuit is labeled with component values: MIC, +C1, R1, R2, GND, B-Q1-C, R3, R4, GND, C2, R5, R6, GND, C3, C4, and ANT.

This circuit was taken from Brown and Kneital's 101 EASY HAM RADIO PROJECTS.

Jeff, NH6IL

From qrp-request@Think.COM Wed Nov 10 12:05:02 1993
Date: Wed, 10 Nov 93 12:03:30 EST

From: Barry x24904/ER/167B-TED <ornitz@RDCS.Kodak.COM>
Subject: RE: QRP Projects

I would like to make a few comments about the simple QRP transmitter designs recently submitted by Jeff Herman. These designs were basically obsolete when published in 1968 and are even more so today as they use transistors that likely will be quite difficult to obtain. The GE replacement transistors called for are all PNP Germanium devices. At least the 2N744 and 2N852 parts are NPN Silicon but even these are quite old. Of course it is certainly possible to substitute more modern (and readily available) silicon NPN devices in these circuits with the appropriate changes in battery polarity and biasing networks. There is much to favor the generic 2222 series transistor (2N2222, PN2222, MPS2222, etc.) in circuits like these: they are cheap (often 10 for \$1 at hamfest prices, only a little more at Radio Shack), they have a reasonable gain up to low VHF frequencies, and are available virtually everywhere. Lots of circuits have been published using them over the years too.

While I recognize the effort that Jeff went to in posting these schematics, I think future posts should warn potential builders that obsolete parts are used. Since QRP is often a new ham's introduction to homebrew, every effort should be made to use parts that are readily available - why frustrate the beginner?

There is nothing wrong with resurrecting older technology as long as you understand that parts may be hard to find today. The recent firebottle (vacuum tube) transmitter was a good example. The author tried to remain faithful to the older designs but still wound up having to substitute a different tube. [I enjoyed his articles, by the way!] If someone wants to build a late 1950's to early 1960's vintage QRP transmitter using Germanium parts, Jeff's posting should be quite useful. For a first-time construction project, however, I would stick to more modern designs.

73, Barry WA4VZQ ornitz@kodak.com

From qrp-request@Think.COM Fri Nov 12 12:41:43 1993
Date: Thu, 11 Nov 93 09:20:32 EST
From: ABRC000 <ABRC%CATCC.BITNET@VTBIT.CC.VT.EDU>
Subject: RE: QRP Projects

>

> I would like to make a few comments about the simple QRP transmitter designs
> recently submitted by Jeff Herman. These designs were basically obsolete
> when published in 1968 and are even more so today as they use transistors that
> likely will be quite difficult to obtain. The GE replacement transistors
> called for are all PNP Germanium devices. At least the 2N744 and 2N852 parts
> are NPN Silicon but even these are quite old. Of course it is certainly
> possible to substitute more modern (and readily available) silicon NPN devices

> in these circuits with the appropriate changes in battery polarity and biasing
> networks. There is much to favor the generic 2222 series transistor (2N2222,
> PN2222, MPS2222, etc.) in circuits like these: they are cheap (often 10 for \$1
> at hamfest prices, only a little more at Radio Shack), they have a reasonable
> gain up to low VHF frequencies, and are available virtually everywhere. Lots
> of circuits have been published using them over the years too.

>

> While I recognize the effort that Jeff went to in posting these schematics,
> I think future posts should warn potential builders that obsolete parts are
> used. Since QRP is often a new ham's introduction to homebrew, every effort
> should be made to use parts that are readily available - why frustrate the
> beginner?

>

> There is nothing wrong with resurrecting older technology as long as you
> understand that parts may be hard to find today. The recent firebottle
> (vacuum tube) transmitter was a good example. The author tried to remain
> faithful to the older designs but still wound up having to substitute a
> different tube. [I enjoyed his articles, by the way!] If someone wants to
> build a late 1950's to early 1960's vintage QRP transmitter using Germanium
> parts, Jeff's posting should be quite useful. For a first-time construction
> project, however, I would stick to more modern designs.

> 73, Barry WA4VZQ ornitz@kodak.com

>

also it is my understanding that the purity requirements for
gear have changed since the 60's and these circuits may not
meet these requirements. There was an article this summer about
building projects from the 50's in an issue of QST this summer.
They had a sidebar warning of this problem with older projects.
Another reason inexperienced builders should stay away from
these.

```
*****
* Rodney Clayton KA3BHY          Howard County Public Schools *
*                               Ellicott City, MD  USA         *
* Systems Programmer             ABRC@CATCC.BITNET             *
*****
```

From qrp-request@Think.COM Fri Nov 12 12:56:22 1993

From: es@mvuss.att.com

Date: Fri, 12 Nov 93 12:57 EST

To: qrp

Subject: QRP SS Scores

Here is the latest scores I have for the QRP category of CW SS:

W2GD 814/76

K0FRP 824/75

W9UP 788/76
W9RE 751/76
AA2U 757/75
K1TR 686/76
WA4PGM 667/76
N0AX 615/76
KB4GID 569/72
N5NMX 465/73
WB2CPU 353/69
KD4HZ 209/63
AE9K 153/54
WA7BNM 100/52

If I receive any more of significance, I will re-issue it.

Ed, K1TR
es@mvuss.att.com

From qrp-request@Think.COM Mon Nov 8 10:21:54 1993
From: es@mvuxb.att.com
Date: Mon, 8 Nov 93 10:04 EST
Subject: QRP SS Scores

Here are some of the QRP SS CW scores I heard last night on 3830.

W2GD 814/76
K0FRP 824/75
W9RE 751/76
AA2U 757/75
K1TR 686/76
WA4PGM 667/76

Please send me any others. I'll send out an update when I get a few more.

Ed, K1TR
es@mvuxb.att.com

From qrp-request@Think.COM Mon Nov 8 14:49:01 1993
From: es@mvuxb.att.com
Date: Mon, 8 Nov 93 10:04 EST
Subject: QRP SS Scores

Here are some of the QRP SS CW scores I heard last night on 3830.

W2GD 814/76
K0FRP 824/75
W9RE 751/76
AA2U 757/75

K1TR 686/76
WA4PGM 667/76

Please send me any others. I'll send out an update when I get a few more.

Ed, K1TR
es@mvuxb.att.com

From qrp-request@Think.COM Tue Nov 9 22:18:10 1993
From: jjw@seastar.org (John Welch)
Subject: QRP SSB ideas
Date: Tue, 9 Nov 1993 20:14:44 -0600 (CST)

After browsing various catalogs, it seems that 1.84322 and 14.31818 are both commonly available crystals in the SSB portion of the respective bands. It would seem that a single-frequency QRP SSB transceiver could be built fairly readily around a 4 or 6 pole xtal filter of either frequency.

The biggest problem would be in building a decent filter, given the tools commonly available. Anybody who's into filter building want to give a hand???

The last time I did one, I used a TW-1 DDS VFO as a signal generator, and measured the response on a spectrum analyzer. Tweaked it untill I got the response I wanted, then did a broader sweep using a real rf signal generator. I strongly doubt these tools are commonly available, however :-(.

Additional TW-1 note: The articles have been pushed out, probably to the Jan 94 issue. There will be one about a parallel-port frequency setter using a PC, and one about an EPROM and thumbwheel-switch gadget. Sometime later there will be an up-mixer to allow coverage to 30MHz, then we commence the filter, receiver and better amplifier.

BTW, if there is enough interest to warrant it I can come up with a much better 5 volt supply, a switcher with moderate efficiency. For those wanting to backpack a TW-1, it's probably a Good Idea, but finding the inductor is a bit hairy.

--

John Welch, N9JZW

From qrp-request@Think.COM Wed Nov 17 17:32:38 1993
Date: Wed, 17 Nov 93 12:32:30 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: qrp vs qro

I have been reading the excellent book HISTORY OF QRP IN THE U.S. - early on in the book the author relates how QST was chastising amateurs on the wastefulness (and arrogance) of high power (this is back in the 20's). Thus, I shake my head in disbelief at Jim's fellow ARRL staff member chastising Jim for taking QRP so seriously. Jim, I would suggest you give your associate a copy of this wonderful book.

I had to return the book to the library - when I get it back (couldn't renew it - have to wait) I will post the address of the publishing company. I HIGHLY recommend this easy reading and extremely informative book to every amateur, not just us qrp folks.

Jeff NH6IL

From qrp-request@Think.COM Thu Nov 11 17:29:28 1993
Date: Thu, 11 Nov 93 12:29:22 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: QRP-NE (JIM)

Jim W1FMR of QRP-NE,

I can't seem to email you - there's no return address on your msg. Yes, feel free to use those circuits in your newsletter. I think it is important that we preserve that period of time in ham radio and try to disseminate the contents of these books widely.

Jeff NH6IL

From qrp-request@Think.COM Tue Nov 9 11:18:23 1993
Subject: qrp-request
Date: Tue, 9 Nov 93 11:18:06 EST
From: Terry Murphy <Terry.Murphy@lambada.oit.unc.edu>

NAME: TERRY MURPHY
CALL: AB4VJ
EMAIL: TERRY.MURPHY@LAUNCHPAD.UNC.EDU
QRP RIG(S): HT40/ASSORTED HOME BREW
QRP FAVORITES: WIRE ANTENNAS, DXING
COMMENTS: VERY INTERESTED IN HALLICRAFTER AND BOAT ANCHORS

THANKS
TERRY DE AB4VJ

From qrp-request@Think.COM Mon Nov 15 01:17:19 1993
Date: Sun, 14 Nov 93 22:16:43 PST

From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: QRPP Dec. Issue

Gang, Issue #3 of QRPP will be mailed Dec. 1st, 1993. It is back from the printers, and now I need to collate, fold, staple, and address all of the pages. It is 60 pages long, as Chuck has said. We now have 172 members of NorCal QRP club, and 143 subscribers to QRPP, the Journal of the NorCal QRP Club. If you are interested in joining NorCal, membership is free, but to receive the Journal, QRPP, which is published 4 times per year, we ask that you pay a \$5 subscription to offset the costs of printing and mailing.

The goal of QRPP is to provide information about QRP. It is not to make money as you can obviously see from the amount that we charge. I subscribe to most of the QRP magazines, and will say that QRPP is not designed to take the place of any of them, just as a vehicle to disseminate information.

I started the Journal for several reasons, one of which was that I wanted to see if I could do it. There seemed to be a void here on the West Coast as far as QRP groups go, and NorCal was in the right place at the right time. I also felt that there were many talented people that I knew who had information that deserved to be printed and preserved. It is a crime to not share the wealth of your knowledge with others. Another reason for the journal was the advice of Jim Fitton, W1FMR. Jim helped me tremendously when Jim Cates, Wayne Burdick and I were forming NorCal. In fact, he is still helping me. Jim told me that to start a QRP club and make it successful, you needed several ingredients. First a coordinator, second a newsletter editor, and third, a technical advisor. Boy was he ever right. We took his advice to the letter, and look what has happened with NorCal QRP Club.

Chuck Adams posted a review of the December issue of QRPP. I appreciate his comments, and I have a suggestion. If you want QRP information take your \$20 and join the NW QRP Club, the NE QRP Club and NorCal QRP Club. You will get a lot more information that pertains to QRP. If you want to receive the December issue of QRPP, Jim Cates must have your application and \$5 by Nov. 24, 1993. He needs your name, call, address, city, state, and zipcode.

Jim's address is:

Jim Cates, WA6GER
3241 Eastwood Rd.
Sacramento, CA 95821

Jim is the Coordinator of NorCal QRP Club. I am the editor of the QRPP, but Jim gets all the money and pays all the bills. Have a good week, and keep the mail coming.

72, Doug

From qrp-request@Think.COM Wed Nov 17 17:31:28 1993
Date: Wed, 17 Nov 93 15:29:49 MST
From: Doug Datwyler <datwyler@moons.sim.es.com>
Subject: QST: the Alpha ad

Since it has been brought up as "who actually get QST", what about the

when so we may indicate that we saw the ad and thought it to be in bad taste?

Doug Datwyler WR70

I have run 100W, since my antenna is small, but haven't in a while. I subscribe to the idea that construction is "GOOD"
datwyler@moons.sim.es.com

From qrp-request@Think.COM Sun Nov 14 00:51:10 1993
Date: Sat, 13 Nov 1993 21:49:18 -0800
From: ROHRWERK@holonet.net
Subject: R2/T2

On 11-09-93, cfishman@PICA.ARMY.MIL wrote to qrp@Think.COM:

>-----
and am now building up
a few of the R2 and T2 boards. I am including

>-----

Not having a test lab, I'm scared off of these by only one thing: the matching of the inductors (and capacitors, but this is less of a problem since close tolerance units are available).

What's the easiest way to measure inductors (and capacitors) precisely in this value range, reasonably cheaply? (Or, more accurately, provide relative readings for matching?) I have: a couple digital multimeters, an old Tek 533 scope, and could build an audio oscillator.

The only other obstacle is buying lots of the inductors to match 'em. I wonder if the Toko adjustable inductors from Digi-Key would work? Would the Q's, wire resistances, and other differences throw off the filter design?

John K0JD

* Freddie 1.2.5 * J.S. Bach of Borg: "Your style will be assimilated"

From qrp-request@Think.COM Tue Nov 16 23:14:48 1993
Date: 16 Nov 93 21:19:07 EST
From: "Judy L. Schnabolk" <73043.1704@CompuServe.COM>
Subject: Receiver PCB's For Sale

Hi Folks

I hope all this for sale posting is OK. Just trying to clear out some stuff I don't plan to get around to using that may be of interest to you QRP homebrewers.

I have two sets of PCB boards to build a compact receiver. The boards are for a receiver that originally appeared in Ham Radio 11/83 and in the Radio Handbook by Editors and Engineers (Bill Orr W6SAI) in chapter 10 (Portable and Mobile Equipment). The boards are as follows.

1. Main board is $3 \frac{5}{16}$ " x 2" and has the circuitry for a grounded base FET RF amp., MOSFet mixer, MOSFet IF amp., MOSFet Product detector, LM386 audio amp. and an audio derived agc.
2. VFO board is $1 \frac{9}{16}$ " x $1 \frac{7}{8}$ " and has the circuitry for a FET hartley oscillator and a MOSFet amp/buffer.
- 3a BFO board is $\frac{9}{16}$ " x $1 \frac{1}{4}$ " and has the circuitry for a FET crystal oscillator.
- 3b BFO board is $1 \frac{3}{16}$ " x $1 \frac{1}{16}$ " and has the circuitry for a FET oscillator using a 455KHz ceramic resonator.
4. Active antenna board is $1 \frac{7}{16}$ " x $1 \frac{1}{16}$ " and has the circuitry for a MOSFet voltage probe antenna. Note: only needed if you want to use receiver with a whip ant.

There is a lot of flexibility with this receiver. It can be constructed very small (enclosure $2" \times 2" \times 4"$ or less), varied band plans (i.e. 9Mhz or 45KHz IF) and for 20/80M or any band for that matter. It would make a nice receiver for travel, net monitoring, or use with a companion transmitter.

I have two sets available as follows:

1. Board #'s 1, 2, 3a and 4 for \$15
2. Board #'s 1,3b and 4 (no VFO board) for \$12

Boards are solder plated and drilled and include a copy of articles above.

Ed W1AAZ Reply to: ed@auratek.com or (617) 290-4800 x114 days

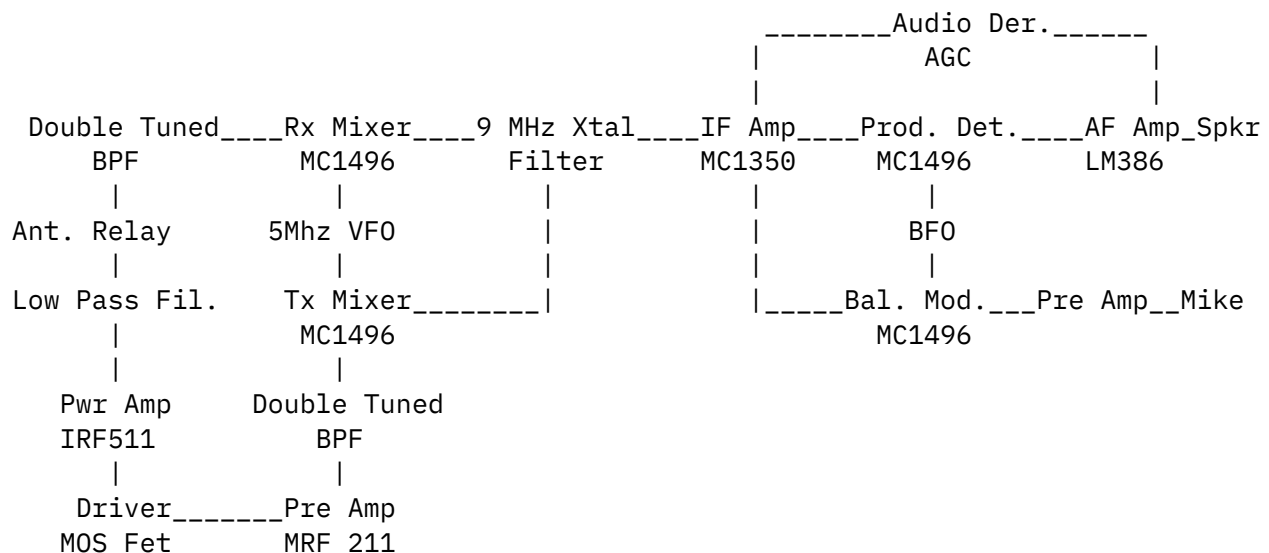
From qrp-request@Think.COM Tue Nov 9 13:39:09 1993

Date: Tue, 9 Nov 93 13:32:59 EST

From: epacyna@auratek.com (Edward Pacyna)

Subject: Re:SSB

Come on guys. SSB transceivers are not any more complex than CW rigs. Shown below is a SSB transceiver that I built for 20M. A CW transceiver would eliminate the balanced modulator and mike pre-amp but would require the addition of a sidetone, T/R off-set and a keying circuit (note: the BFO would now be directly connected to the Tx mixer vs through the IF). The transceiver was built on a 6"W x 5"D PCB.



Unless your talking real primal radio (e.g. crystal controled transmitters and direct conversion / super regen. receivers), a basic single conversion SSB transceiver is no more complex to build than a CW transceiver.

73

Ed W1AAZ

From qrp-request@Think.COM Wed Nov 17 10:15:18 1993

Date: Wed, 17 Nov 93 10:14:44 -0500

From: krandy@hubcap.clemson.edu (randy kaufman)

Subject: Semi-Kits

I like Laura's idea of the semi-kit, containing PC board(s) and major semiconductors, or other more difficult-to-find parts (like coils?). My junque-box is

crammed with "bread-and-butter" parts, and I can usually find (or make) knobs, cases, etc. Seems like it would be easier to 'kit a design, too.

73 Randy Kaufman WD4LUJ

From qrp-request@Think.COM Sat Nov 13 11:24:21 1993
From: bob.berlyn@chowda.sbs.com (BOB BERLYN)
Subject: Sheet Metal Brake ?
Date: Fri, 12 Nov 1993 20:47:06 GMT

Hi every one !

Does any one know where I can find an small inexpensive (Cheap but not poor quality) sheet metal brake sutable for making cabnets for my QRP projects?

I have read some where that JC Whitney had one, but do you think I can find a JC Whitney cataloge, nooooooooo, and I cant remember where I read this.

If any one has any info on where I might find one, or an address for JC Whitney pls send it along.

Thanks

Bob Berlyn
N1PWU

Bob.Berlyn@Chowda.sbs.com

From qrp-request@Think.COM Sun Nov 14 22:45:52 1993
Date: Sun, 14 Nov 93 21:44:29 CST
From: msdooley@rockdal.aud.alcatel.com (Michael S. Dooley)
Subject: Slugs pace

Howard and all...

A slugs pace... 2400 bps... <grin> <no, BIG GRIN>... I remember when I upgraded from 110 to 300 bps. Boy, an almost threefold increase! Then, SEVERAL years later the 1200 bps MODEMS came within reach... The no-names dipped under \$100.00... and I upgraded... THEN, just 3 months ago I bought a new, Hayes, 2400B internal at Sams for the unheard of sum of \$25.00. Thats right 2400 for \$25.00.

Ya' know, I have access to the 9600 and 14.4 stuff at work, but I still remember that old 110 bps MODEM from just 10 years ago [sniff]. Gosh I'm glad it's gone!!!

Mike Dooley KE4PC
msdooley@rockdal.aud.alcatel.com

From qrp-request@Think.COM Mon Nov 15 00:28:10 1993
From: jerry@tr2.com
Subject: Re: Slugs pace
Date: Sun, 14 Nov 1993 21:25:12 +0000 (GMT)

>
> Howard and all...
> A slugs pace... 2400 bps... <grin> <no, BIG GRIN>... I remember when
> I upgraded from 110 to 300 bps.

*** And I remember when I homebrewed my first modem. 300 bps... No, actually 0-600 bps. I used this trick Motorola chip that had 90% of the circuitry in it. So what if I had to build my own hybrids and active filters! I've still got the thing, too. Can't seem to bring myself to throw it away. Although now that I think of it, there just might be an 80M crystal in there....

- Jerry Kaidor

--

* Jerry Kaidor jerry@tr2.com, jkaidor@synoptics.com *
* KF6VB *

From qrp-request@Think.COM Tue Nov 16 17:53:43 1993
From: david kohn <dkohn@ua.d.umn.edu>
Subject: source for DPDT foot sw's
Date: Tue, 16 Nov 1993 16:53:11 -0600 (CST)

Hello folks,

Can anyone recommend a source for DPDT footswitches?
I'd like to be able to switch fx in/out of the signal path...

Thanks much,
Dave Kohn KG0FK dkohn@ub.d.umn.edu

From qrp-request@Think.COM Mon Nov 8 12:03:06 1993
Date: Mon, 08 Nov 1993 11:04:39 -0600 (CST)
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: SS

HI,

Well Sweepstakes is probably my favorite CW contest.. I like the longer exchange. I somehow messed up and was waiting for it next weekend. I unfortunaley had my whole TV antenna and Satellite systems in various

states of repair. I worked non-qrp for a while to test out my 850 and various filters.

Got a few minutes only at the end of the contest while doing some soldering repairs I turned on the ARK40.. figured it would be a good test. The 40 meter band was pretty tough.. at times the 500 hz filter on the 850 just didn't do the job and had to use the DSP and tried both the Oak Hills and Tejas audio filters. I was surprised how easy it was to get through on the ARK.. don't have anything but a vertical for 40 meters. I found if I turned on the Audio Filter on the ARK I was able to really only hear the one signal.. found that the push buttons for tuning that sometimes can be a pain, worked real well for contesting...if I can ever get the \$25 Superkeyr going.. I can have a tiny contest setup up.. may have to try it from a mountain top in the Smokies.

What kinda ranch you have Chuck?

72

Jeff, AC4HF

From qrp-request@Think.COM Tue Nov 9 10:55:57 1993
From: g-taylor4@tamu.edu
Date: 9 Nov 93 09:54:30 CDT
Subject: SS

Had a blast in time available. Got in about 8 hours with 209 Qs and 63 sections. Don't know if I just didn't spend enough time, its the general decline in propagation with the cycle, or it was the weekend just didn't have good propagation (I been going too many different directions lately to keep up) but my section count seems low relative to past years. Did notice that KH2/N60P was not booming in as in previous years and KL7 was weak also. Ten meters also not good for much here. Saturday evening the rate really went down with the MUF but on Sunday was able to hit stretches of 40/hour. With a G5RV at 25 ft and 5 watts I know its tough copy so think there are some really first class operators out there that spent the time to dig me out.

72, Greg KD4HZ

Dr. Gregory S. Taylor !MAIL: 110 Dairy Science Building
Extension Program Leader for ! College Station, TX 77843-2124
Community Development !VOICE: 409-845-4445
Texas Agricultural Extension Service!FAX: 409-847-8744
Texas A&M University System !EMAIL: Reply or g-taylor4@tamu.edu

From qrp-request@Think.COM Sun Nov 7 22:55:59 1993

Date: Sun, 7 Nov 93 21:55:43 -0600
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: SS '93

Well gang,

it's all part of history now.

I really don't know why I take the abuse. I work 16 hr days for a week. Decide to blow off any contesting at all. Get to the ranch on Friday nite, kick off the old shoes, build a fire and just chill out. Didn't even think of turning the rig on. I was a vegetable, probably a radish or a lettuce. Brain dead. Just plain pooped.

Saturday morning I run back into the office 'til lunch time to work on setting up a classroom for classes starting this Monday. Spend the afternoon cleaning around the shack. Still haven't touched a rig. Almost had a disaster. The NorCal 40 uses an RCA plug for power. Had the Gel Cell on the desk and moved it. Well, the plug came in contact with one of those fancy dial critters, a fender washer. Almost melted the wire just in an instant. This gonna change. Back to the 12V plug like in the OHR rigs. No problem.

So, got to thinking. Hey, AA2U is going to work this contest at a closer distance. This may be the chance of a lifetime. No pain, no gain.

OK, SS is the second biggest or third biggest contest of the year for CW ops. #1 is probably the DX TEST, coming up soon (more later). #2 is probably field day in the US and NA. Then SS contest, both CW es SSB. OK, wait, I haven't operated this thing since 1988. No logs or dup sheets. No problem. Down to the desk and make some up with the workstation and laser printer. Good job. ARRL won't mind these puppies. :-)

So scramble to set up the NN1G rigs for 40 and 20. I was thinking about just doing 40, my favorite band in the whole universe. So, 0451 call the first station. Now mind you, I'm running 0.95W out on both bands. I'm out gunned and I'm out numbered. The first critter hears me. A 8 in LA? Used to be a 5, but now days, it doesn't matter!! And off I go, frequency hopping like a wild hare. An hour and a half later, I'm dead. Quit for the nite. Nap time. Saw some logs.....

Next morning (Sunday), 1427 back on 40. Work two hours, band about dead. OK, let's do 20. Off to 20. On and off 20, then to 40M to finish at 0300. It's a miracle. The only time in the world that so many people are synced with WWV. The band goes from pure mayhem

to almost dead quiet. :-)

I didn't make 200 contacts. Spent too much time having fun looking for Sections. I needed PAC VI PR AK ND VT CT NLI DE NFL SFL MS SF and WY!

Where was florida? I heard one, but he had a pileup.

Pete, VE5VA, did you get the MT that you needed? I hope so. In last 45 minutes the section hunting paid off.

Saturday nite, I heard a station calling AA2U around 7.015. I couldn't hear Randy. Listened hard, but pileup on him like mad. OK, Sunday 1909Z, there he is on 20. Randy must have been running less power than me. He was the weakest kid on the band all weekend from this qth. I know he has an antenna farm, but no juice headed my way. Randy, how much power were you running? Tell us, inquiring minds just gotta know. He's in the log. Fair and square. QSL in the mail Randy. SASE included, so don't send me one yet. High point of my day, for sure. Thanks Randy. I could have sworn that I heard him laugh when I gave him my NR. He sent his first and I was embarassed to give him mine. An order of magnitude difference. Of course, had I started from the start we would have been neck and neck!! :-) ;-)

Good show Randy.

Last hour was really a challenge. Had a bunch of sections to go and I was really worried. Had a goal, which I stupidly announced to this group. But ran a string together you would have been proud of.

Another high point. Needed SV and LAX in 6 land. Got both, but the hard way. K6FO in SV and AB6FO in LAX!!!! Both within 5 contacts of each other on 40 meters at 0149Z and 0158Z.

How did anyone else do? We know that Randy took the QRP division on this one again. Surely he did.

Not that many Qs heard here. That's the QRP division of SS. Bunch of good ops. I got a lot of calls memorized and will probably be having dreams in CW for sure now. Randy had a freq locked down. I just hopped, but worked just about everyone that was new to me. What slows this down and not a good contest procedure is that you have to listen to a lot of two way exchanges before you get your chance to peep. CQs are easy to answer, but if exchange in progress you listen to both, just to get both calls and sections to make a decision. Even at 30 to 40 wpm, this takes time.

If you want to get your code speed up, this is the contest. Don't be afraid. You can practice by listening to a guys call and exchange til you get it, then call him. It'll be second hand before you know

it.

The NN1G receivers held up nicely and no complaints from me. Used OHR cap audio filter some, but not all that much. The AGC mod in the K5FO special worked fairly well. (my version of the NN1G with some other goodies to be announced shortly) Sorry, no advance press on this one, until I'm sure. Hold your horses.

Peter, VE5VA, wrote me a nice note about working the DX test to rack up the countries for my DXCC on 40M QRP within a year. Pete, I'm going for it. So plans in place to go all out in this one. Any help from others, Randy et.al., I'm open to suggestions. The HF6V comes outta the garage along with the long wire and a beam for 20 should help.

OK, too long a posting. I'll be buried again this week. But, I'll be monitoring every chance I get.

73 es gl to all de k5fo NR XXX Q K5FO 58 NTX K

dit dit <cl>

SIG

-----cut here-----

Chuck Adams, K5FO - CP60

adams@sgi.com

QRP ARCI Awards Chairman

From qrp-request@Think.COM Mon Nov 8 09:16:18 1993

From: Warren E. Lewis <saswel@unx.sas.com>

Subject: Re: SS '93

Date: Mon, 8 Nov 1993 09:14:59 -0500 (EST)

Chuck,

I knew you couldn't stay away!! :-) You should have come up and visited us slow pokes in the Novice sub-bands :-) I worked only 40 and 80 meters because I only tested in the wee morning hours and in the late afternoon and evenings.

> How did anyone else do? We know that Randy took the QRP division on
> this one again. Surely he did.

I did okay for my first real CW contest after Murphy struck during the ARCI QRP contest (lets put it this way I didn't come close to a clean sweep). I'll have to admit I didn't work QRP this time around.

I was running about 25 watts. (I know what your thinking!! :-)
When I get my code speed up and get more experience under my
belt I will be turning it farther and farther down.

>

> Not that many Qs heard here. That's the QRP division of SS.

I worked two Qs, one in NNJ and one in EMA.

> If you want to get your code speed up, this is the contest. Don't
> be afraid. You can practice by listening to a guys call and exchange
> til you get it, then call him. It'll be second hand before you know
> it.

That is the exact method I used until I got some confidence and figured I'd
try calling CQ SS myself...boy was that fun I had a pile-up instantly. I
worked about 7-8 before the dust settled :-) Not a huge pile-up, but, when
you are poking about 10 wpm with the long exchange that's about all that
will hang around for you...Only had to ask for a couple of repeats. Not bad
for a rookie CW op. Ya know this CW stuff is really a lot of fun, especially
when you start to get the hang of it!!!

>

> OK, too long a posting. I'll be buried again this week. But,
> I'll be monitoring every chance I get.

Sorry to hear you will be buried...I'm sure, I and a few others on this
list look forward to your posts.

>

> 73 es gl to all de k5fo NR XXX Q K5FO 58 NTX K

73 es tnx fer post de kd4yrn NR XX A KD4YRN NC BK

SK de KD4YRN dit dit

--

Warren E. Lewis
Technical Support Division
SAS Institute Inc.
Cary, NC

saswel@unx.sas.com
(919) 677-8001 x6542
PP-ASEL
KD4YRN DOD#0021

From qrp-request@Think.COM Mon Nov 8 09:35:05 1993
Date: Mon, 8 Nov 93 09:39:06 EST
From: bapplega@isd.csc.com (Bob Applegate)
Subject: Re: SS '93

I did some QRPing this weekend, but only in the 40 novice band. I worked

two other Qs, one in ENY, the other in OH. Nothing to write home about: only 49 QSOs and 23 sections (my dipole is not fit for QRP use: 25 feet above ground). Had fun and will certainly do it again next year (but with a real antenna).

73

Bob, wa2zzx (snj)

From qrp-request@Think.COM Mon Nov 8 18:41:29 1993
Date: Mon, 8 Nov 93 15:40:44 PST
From: mont@ibmmail.COM
Subject: SSB & FM QRP

Duane writes:

> I have the distinct feeling that most of y'all are dedicated CW QRPers.
> (and most of the construction projects I see are CW related)
> Anybody out there doing SSB or FM QRP work?

I am very interested in doing qrp ssb and fm. I'm working on one project using the DDS VFO from the 73 mag Techno Whizzy articles to build a general coverage CW/SSB/AM(?) transceiver.

Another project I'd like to do is a very tiny vhf fm repeater. Small enough and cheap enough to attach to a few helium party balloons.

Progress is real slow, I gotta work for a living too and these are sort of ambitious projects. Oh well...

73,

mont - km6wt,

From qrp-request@Think.COM Mon Nov 8 22:13:51 1993
Subject: Re: SSB & FM QRP
Date: Mon, 08 Nov 1993 19:13:39 -0800
From: Clark Savage Turner WA3JPG <turner@safety.ICS.UCI.EDU>

Ahhh... on the focus of SSB / FM construction... Chuck is right, the darned price, complexity and availability limitations are big. The latest project I have seen that excited me was the KK7B (Campbell) R2/T2 project. Takes a loooooong time to get the boards, but they are real nice. Makes the SSB transceiver a possibility for me on my workbench. I am very slowly aggregating parts, and looking for partners for this project (even if at long distance).

And, on the horizon, MFJ is talking about SSB QRP transceivers coming soon, and even Ramsey promises a SSB/CW transceiver kit (for "less

than \$300".....) soon. We'll see. I wonder if we could convince Ten Tec to try to work their way into this market - they have the experience and knowledge, but have rarely done well in price competition.

Clark
WA3JPG

From qrp-request@Think.COM Tue Nov 9 11:21:53 1993
From: "Kevin Anderson" <GGANDERSON@Augustana.edu>
Date: Tue, 9 Nov 1993 10:19:31 GMT-500
Subject: Re: SSB & FM QRP --> CM Howes kits

Clark, WA3JPG, wrote [stuff deleted]:

>

> And, on the horizon, MFJ is talking about SSB QRP transceivers coming
> soon, and even Ramsey promises a SSB/CW transceiver kit (for "less
> than \$300".....) soon. We'll see. I wonder if we could convince
> Ten Tec to try to work their way into this market - they have the
> experience and knowledge, but have rarely done well in price
> competition.

>

I am aware of CW/SSB transceiver kits made by CM Howes (UK)
and sold here in the states by Townsend Electronics, Box
415, 133 N. 1st Street, Pierceton Indiana 46562, 1-800-944-
3661.

They market a 10&15m dual band SSB/CW transceiver capable of
3 to 10 watts PEP depending upon voltage. They market a
80/160 DSB/AM/CW transceiver also capable of the same ranges
of power I believe. Kit prices are \$299.95 and \$239.95
respectively.

Townsend also just started carrying Walford Electronics kits
(also UK). One page insert suggests a 160m DSB transceiver,
3 to 10 W PEP (12 to 25 volts) for \$134.95, a 80m SSB
transceiver, 10 to 35 watts PEP (12 to 25 volts) for
\$239.95, and an 80/20m SSB transceiver, 12 to 40 W PEP (12
to 25 volts), for \$399.95

I don't know if this is what everyone is looking for, but
here is some options.

(I do not own any stocks or products or Townsend, Howes, or
Walford -- just have some literature).

72 de Kevin, KB9IUA

* * * * *
Kevin L. Anderson, Geography Dept., Augustana College
Rock Island, Illinois 61201 USA phone: (309) 794-7325
e-mail: gganderson@augustana.edu or kla@helios.augustana.edu
* * * * *

From qrp-request@Think.COM Wed Nov 10 09:52:25 1993
Date: Wed, 10 Nov 93 06:49:57 -0800
From: mcronenw@pyramid.com (Mark Cronenwett)
Subject: SSB and Computer Computer Crystals

Another common crystal is 7.159. I bought several of these here for
\$.79 apiece. I have a direct conversion scheme in mind. Of course
I am just working on building the transmitter first. One design is
a phasing generator in the back of the QRP Notebook, the other is an
idea from Wayne Burdick using the NE602.

Mark

-m----- Mark Cronenwett Wk: (408)428-9000 x6978
--mm----- Technician Specialist Fax: (408)428-8855
---mmm----- Board Analysis and Repair Team Maui AI Z9697
-----mmmmmm--- Pyramid Technology Corporation
-----mmmmmmmm-- San Jose, California
-----mmmmmmmm-- mcronenw@pyramid.com KA7ULD(@N0ARY.#NOCAL.CA.USA.NA)

From qrp-request@Think.COM Mon Nov 8 17:58:57 1993
Date: Mon, 8 Nov 93 16:58:45 -0600
From: adams@chuck.dallas.sgi.com (Charles Adams)
Subject: SSB Construction

Duane, WB9OMC, writes inquiring about SSB and FM projects.

Yes, it seems like we all love CW, but that's just not true.
The problem with SSB and FM is the increased cost and complexity
of design, parts counts, PC boards, and on and on goes the list.
Rumor has it that several people are working on getting kits out,
but they just might be too expensive for the average QRPer.
Money is always an object it seems.

CW only rigs are easy to design and fast to build. If people
can compete against the price of a used ICOM, KENWOOD, YAESU,

or whatever, then we might see some interest gained in this area. Doug DeMaw in his book, in the last few chapters, talks about DSB generation, but the elimination of one sideband is another topic.

Time will tell on this issue.

```
73 de k5fo dit dit
SIG
-----cut here-----
Chuck Adams, K5FO - CP60
adams@sgi.com
ORP ARCI Awards Chairman
```

From qrp-request@Think.COM Tue Nov 9 11:21:08 1993
Date: Tue, 9 Nov 93 10:21:01 CST
From: dadams@cherry.cray.com (David Adams)
Subject: Re: SSB Construction

adams@chuck.dallas.sgi.com (Charles Adams) escribio':

>The problem with SSB and FM is the increased cost and complexity
>of design, parts counts, PC boards, and on and on goes the list.
>Rumor has it that several people are working on getting kits out,
>but they just might be too expensive for the average QRPer.

Well now what about these radio on a chip designs that put almost all of the parts for a radio receiver or transmitter on a single cmos chip, with FM modulation to boot?! A minimum of external parts is required. (A ceramic filter, a couple of coils, a few capacitors, a few resistors, & such.)

Also, is Motorola the only company making such things? I certainly doubt it. Almost any radio you look in these days seems to be made this way.

Sourdough and Ham KG0IO/AE

--David C. Adams dadams@cray.com
Statistician
Cray Research Inc.

```
|
| | |
| | |
| \_/_/
| ( )
| .: .
| .: .
```

From qrp-request@Think.COM Tue Nov 9 22:18:09 1993
From: jjw@seastar.org (John Welch)
Subject: Re: SSB Construction
Date: Tue, 9 Nov 1993 10:31:19 -0600 (CST)

In your article <9311082258.AA02984@chuck.dallas.sgi.com> ["SSB Construction"], you wrote:

> Duane, WB9OMC, writes inquiring about SSB and FM projects.
>
> Yes, it seems like we all love CW, but that's just not true.
> The problem with SSB and FM is the increased cost and complexity
> of design, parts counts, PC boards, and on and on goes the list.
> Rumor has it that several people are working on getting kits out,
> but they just might be too expensive for the average QRPer.
> Money is always an object it seems.

Just an idea that occurred to me yesterday - 14.318 is a
very common computer crystal, common enough to order 10 or 20 of to
build a crystal filter. A 4 or 6 pole filter would work just
peachy-keen for sideband filtering, and the remaining crystals can be
the LO for a direct conversion SSB rig. Anybody interested in this?

--

John Welch, N9JZW

From qrp-request@Think.COM Wed Nov 10 13:07:13 1993
From: laurahal@microsoft.com
Subject: Re: SSB Construction
Date: Wed, 10 Nov 93 09:06:00 PST

The biggest issue I've heard with non-CW QRP operation is the insistence of
most SSB operators on arm-chair 59+ copy, which is difficult to do on QRP
power levels.

QRP power levels relax some of the requirements, and DSB transmission is
often acceptable. As well as dead simple to implement. If you really must
have SSB, one approach might be to whomp up a quick and dirty phasing
exciter, and if the sideband suppression isn't enough, clean it up with a
homebrew crystal filter. This relaxes the requirements on both the filter
and the exciter phasing networks.

There is some material in one of W1FB's books (_QRP Notebook_?) on a simple
phasing exciter. There is an SSB design in the RSGB VHF/UHF Handbook that
employs phasing directly at 2m, which you can't do with filters. And, of
course, there is material in _Solid State Design for the Radio Amateur_ on
DSB and SSB generation and transmission.

73 from Burnaby,
laura VE7LDH

From qrp-request@Think.COM Wed Nov 10 18:04:37 1993
Date: Thu, 11 Nov 93 08:12:19 EST
From: richard@dnd.icp.nec.com.au (Richard Urmonas)
Subject: SSB filters and computer XTALS

Now I have never built a xtal filter from discrete components but if memory serves the low cost computer crystals are specified for as broad +/- 1000 ppm. Now if one uses a 14 MHz xtal this means a spread of 14 kHz. Even with a "better" quality computer xtal say +/- 100 ppm the spread is 1.4 kHz. As I haven't done any xtal filter design I don't know how well such spreads can be accommodated, but it may bear consideration before trying to assemble a filter.

73
Richard

From qrp-request@Think.COM Wed Nov 10 21:53:32 1993
Subject: Re: SSB filters and computer XTALS
Date: Wed, 10 Nov 93 21:53:57 EST
From: "John F. Woods" <jfw@ksr.com>

The usual approach to dealing with computer crystals for filters is to buy a lot of them (I've got 70 16MHz crystals in a bag to my left) and use an oscillator and frequency meter to match them. This means you can assemble a filter from tight tolerance crystals though your IF frequency isn't very predictable.

From qrp-request@Think.COM Thu Nov 11 21:38:33 1993
From: jjw@seastar.org (John Welch)
Subject: Re: SSB filters and computer XTALS
Date: Thu, 11 Nov 1993 09:06:51 -0600 (CST)

In your article <9311102112.AA24533@durian.dnd.icp.nec.com.au> ["SSB filters and computer XTALS"], you wrote:

> Now I have never built a xtal filter from discrete components but if
> memory serves the low cost computer crystals are specified for as broad
> +/- 1000 ppm. Now if one uses a 14 MHz xtal this means a spread of 14 kHz.
> Even with a "better" quality computer xtal say +/- 100 ppm the spread is
> 1.4 kHz. As I haven't done any xtal filter design I don't know how well
> such spreads can be accommodated, but it may bear consideration before
> trying to assemble a filter.

>

> 73

> Richard

Most of the computer grade xtals I've seen have been +/- 25 to 50 ppm. Batches from the same mfg are usually within 2KHz or less from each other, and it's really easy to match a bunch for filters if you buy 30 or so at once (and you get quantity discounts too:-), build a simple oscillator (I use a 74HC04 based unit with a socket for the crystals) and measure the frequency on a decent counter.

Note that you get **a filter**, not necessarily a filter at the exact frequency you wanted. My 10MHz filter (6 pole, 3KHz wide) is about 3.5KHz lower than 10MHz, and my 12MHz (6 pole, 2.7KHz at present) is centered about 12.001500MHz. The 12MHz xtals on my oscillator came in at 12.005700, and as I recall the 10s were all 9.995000-ish... Guess my oscillator isn't quite series-resonant.

--

John Welch, N9JZW

From qrp-request@Think.COM Thu Nov 11 04:43:33 1993

Date: Thu, 11 Nov 93 17:53:12 EST

From: richard@dnd.icp.nec.com.au (Richard Urmonas)

Subject: SSB filters and direct conversion

OOPS!! When I sent my comment on frequency spread I meant to refer to people experimenting with "direct conversion"-SIC. Thanks to the people who commented on selecting matched crystals. I was aware of this but had meant my comment to apply to the "direct conversion" experiments, where the frequency spread will hamper communications between two similar units.

73

Richard, VK3DRU

From qrp-request@Think.COM Mon Nov 15 18:36:43 1993

Date: Mon, 15 Nov 1993 17:36:19 -0600

From: Arnett <aaa33750@uxa.cso.uiuc.edu>

Subject: SSB qrp

Here's a question I got from a local friend. I don't think 20m is doing too bad (except for last weekend, when due to a mental lapse I was QRO from W9YH for the WAE RTTY tst. Propagation just wasn't there Saturday as we only worked 3 European stn's.)

-----begin forwarded mail-----

From wrfin@firefly.prairienet.org Mon Nov 15 14:50:27 1993

Received: from ux1.cso.uiuc.edu by uxa.cso.uiuc.edu with SMTP id AA07224

(5.67b/IDA-1.5 for <aaa33750@uxa.cso.uiuc.edu>); Mon, 15 Nov 1993 14:49:33 -0600

Received: by ux1.cso.uiuc.edu id AA27174
(5.67a8/IDA-1.5 for aaa33750@uxa.cso.uiuc.edu); Mon, 15 Nov 1993 14:49:10 -0600
Received: from firefly.prairienet.org by ux1.cso.uiuc.edu with SMTP id AA27101
(5.67a8/IDA-1.5 for <kb9fko@uiuc.edu>); Mon, 15 Nov 1993 14:49:01 -0600
Received: by firefly.prairienet.org id AA28815
(5.67a/IDA-1.5 for kb9fko@uiuc.edu); Mon, 15 Nov 1993 14:47:41 -0600
Date: Mon, 15 Nov 1993 14:47:41 -0600
Message-Id: <199311152047.AA28815@firefly.prairienet.org>
X-Ph: V3.17@ux1.cso.uiuc.edu
From: wrfin@prairienet.org (william r finch)
To: kb9fko@uiuc.edu
Subject: QRP - fact or fiction?
Reply-To: wrfin@prairienet.org
X-Charset: LATIN1
X-Char-Esc: 29
Status: R

I was just wondering how the QRP stuff is going. I am thinking about
doing some QRP SSB on 20, but wondering if it's worth the trouble.
Is 20 open these days? Do QRP stations get eaten alive? Inquiring
minds want to know... 73's de KF9KI

---end forwarded msg-----

You can mail Bill, KF9KI, at wrfin@prairienet.org.

Thanks a bunch!
Drew Arnett
kb9fko@uiuc.edu Champaign, IL
(and sometimes heard from W9YH)

ps. I'm sending Bill the e-mail list subscription info. Hey, if anyone can
work QRP during SS phone, then it must be possible...

From qrp-request@Think.COM Tue Nov 16 14:19:18 1993
From: "Webb, Ted" <TWebb@dev2.clemsonsc.NCR.COM>
Subject: Subscribe
Date: Tue, 16 Nov 93 13:14:00 PST

Please subscribe

thanks.

ted webb / AC4CS

TWebb@clemsonSC.NCR.COM

From qrp-request@Think.COM Mon Nov 8 18:05:00 1993
From: andrews@fms.com (Andrew Sargent N80FS)
Subject: test posting...
Date: Mon, 8 Nov 1993 18:02:22 -0500 (EST)

This is a test posting to see if I can make the reflector...

--

Tell Me Something I Don't Know,	! HAM	=	N80FS
Show Me Something I Can Use,	! ARMY MARS	=	AAN5HJT
Push The Buttons,	! CB	=	THE NEON KNIGHT
Connect The God-Damn Dots!!! - Ministry	! HACKER	=	TH3 N30N KN16Ht

From qrp-request@Think.COM Mon Nov 8 09:50:35 1993
Date: Mon, 8 Nov 93 06:47:15 PST
From: rast@nosc.mil (Howard E. Rast)
Subject: UNSUBSCRIBE

Please drop my subscription. I don't have time to read all the messages.

From qrp-request@Think.COM Mon Nov 8 11:04:04 1993
From: peacock@hermes1.sps.mot.com (Don Peacock)
Date: Mon, 8 Nov 93 09:04:20 MST
Subject: Unsubscribe

Thanks for all the good info guys.

Don Peacock
N7PMN

From qrp-request@Think.COM Mon Nov 8 13:35:02 1993
Date: Mon, 8 Nov 93 06:47:15 PST
From: rast@nosc.mil (Howard E. Rast)
Subject: UNSUBSCRIBE

Please drop my subscription. I don't have time to read all the messages.

From qrp-request@Think.COM Mon Nov 8 15:04:18 1993

From: peacock@hermes1.sps.mot.com (Don Peacock)
Date: Mon, 8 Nov 93 09:04:20 MST
Subject: Unsubscribe

Thanks for all the good info guys.

Don Peacock
N7PMN

From qrp-request@Think.COM Tue Nov 9 00:41:55 1993
From: Brian Paul Wilde <wildeb@rpi.edu>
Date: Tue, 9 Nov 1993 00:41:50 -0500
Subject: Unsubscribe

Please unsubscribe me from this listserver.

Thanks, and 73's

Brian Wilde
N2OWD

From qrp-request@Think.COM Mon Nov 8 16:16:10 1993
From: jpo@acd4.acd.com (Jim Osburn)
Subject: Video
Date: Mon, 8 Nov 93 14:51:04 EST

If I had a video camera, which I don't, I would make a QRP video.

I would include descriptions of the latest models of rigs.
I would particularly show the insides of the rigs.
I would show a kit under construction.
I would show a homebrew rig under construction.
I would show operating procedures.
And I would show and describe the various publications available.
I would take my video camera to Field Day and show that too.
I might also interview famous QRP people at the Dayton hamfest.

I would then make about 100 copies of the video and sell them
at hamfests. I would also sell them to subscribers of this QRP mailing list.
If those 100 go quickly, I would make more copies and put ads out.
I wouldn't do it to make money, I would do it to inform people about QRP.

But I don't have a video camera.
Maybe someone else will be inspired to make "QRP - The Video".
Then I could just buy a copy.

73,

Jim, WD9EYB

From qrp-request@Think.COM Tue Nov 9 09:48:04 1993
Date: Tue, 9 Nov 93 09:39:50 EST
From: klaudon@PICA.ARMY.MIL
Subject: Re: Video

>If I had a video camera, which I don't, I would make a QRP video.
>
>I would include descriptions of the latest models of rigs.
>I would particularly show the insides of the rigs.
>I would show a kit under construction.
>I would show a homebrew rig under construction.
>I would show operating procedures.
>And I would show and describe the various publications available.
>I would take my video camera to Field Day and show that too.
>I might also interview famous QRP people at the Dayton hamfest.
>
>I would then make about 100 copies of the video and sell them
>at hamfests. I would also sell them to subscribers of this QRP mailing list.
>If those 100 go quickly, I would make more copies and put ads out.
>I wouldn't do it to make money, I would do it to inform people about QRP.
>
>But I don't have a video camera.
>Maybe someone else will be inspired to make "QRP - The Video".
>Then I could just buy a copy.
>
>73,
>
>Jim, WD9EYB
>
I would then send it to ARRL so that W1AW could broadcast it out to the world using QRP SSTV. Or even QRP WBTV on whatever mm band we're allowed to do that on, if any.

I would include interviews with the best and worst dressed QRPers (men only - we would want to keep it clean!).

I would include interviews with the shortest and tallest QRPers known to exist. They would stand side by side, perhaps with the shortest one standing on a stack of ARRL Handbooks so that they are on the same level. For humor, the interview could be conducted next to a tower, with the interviewer standing one or two rungs up, holding on with one hand, and using the other to hold the extension mike up to Chuck's mouth and whoever else is the short guy.

Someone lend Jim a video camera (I don't have one, either), and go for it,

Jim!

72,

Kalman (not tall, not short, dressed from Sears and K-Mart, and otherwise
totally unremarkable) #: }

Kalman Laudon WD6CZI in 2 land
<klaudon@pica.army.mil>

From qrp-request@Think.COM Tue Nov 9 09:29:34 1993
Date: Tue, 9 Nov 93 09:29:29 -0500
From: wb9omc@ecn.purdue.edu (Duane P Mantick)
Subject: vocal qrp

Thanks to everyone who responded on the issue of voice QRP.

It does sound like there is some interest out there, so let's stay tuned
to that - it also sounds like there may be some kits forthcoming to
meet that interest.

Another thorny question - has anyone ever done a CB-to-10M modification
of something low powered for use as SSB QRP? Seems like an idea that has
potential.....

I'm also curious to find out what sort of antennas a lot of y'all are
using, and what kind of feedline (especially the feedline) you use to
keep feed losses down.

From playing around with my HR2510 it does seem all too obvious that
getting a good match between radio and feedline and from feedline to
antenna makes a BIG world of difference.

Being an apartment dweller, I am sort of "stuck" with certain rules
about what I can and can't do. I'm sure a lot of other folks have run
into this "limited choice" scenario as well. Running QRP, or perhaps
to satisfy the purists, a reduced power level (e.g., <25 watts) allows
us to make use of more kinds of things as antennas, and at the same
time the lessening of power may ease some of the TVI problems.

Thoughts?

Duane

From qrp-request@Think.COM Fri Nov 12 00:13:14 1993
Date: Thu, 11 Nov 93 23:12:59 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: WAS QRP Award

Gang,

For those of you who have worked contests, past, present and future sponsored by the QRP ARCI. During these contests you copied calls and QRP ARCI Membership numbers. This list is sufficient for proof of contact. You don't need a QSL.

Also, the QRP WAS (Worked All States) starts at 20 states, you don't have to work all 50 before applying. Check the rules posted previously.

So, if you have worked 20 or more states (we have endorsements for 20, 30, 40 and all 50 states), and you wanna apply for this award, send me email. I'll send you a form that I use and you return it to me with the \$2 to pay for the certificate and postage. That's all there is to it. I don't make a dime on this, it's for the club (QRP ARCI).

I'll pay the postage to you for the forms, just because.

So, when working stations, be sure to get their ARCI Membership number. The club does not publish these things just for this reason.

So, by working the contests, QSO parties, net checkins, etc. you can rapidly run up your state counts. Also, when you move, you start over. At least, that's the way the ARRL does it and I think that's fair.

Anyone on the net a county hunter. I need to talk to you via email. Thanks.

73 der now de k5fo/qrp dit dit

SIG

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com
QRP ARCI Awards Chairman

From qrp-request@Think.COM Fri Nov 12 13:38:36 1993

Date: Fri, 12 Nov 1993 11:24:41 -0800
From: cleveland@gvg47.gvg.tek.com (Grover Cleveland)
Subject: Re: WAS QRP Award

NOTE: the following is part of an exchange between Chuck and myself regarding the 50 mile rule of the League for WAS awards. Chuck proposes to adopt the League's guideline and I cried "foul."

>Grover,
>
>well, let's see. In Texas I can move 600 miles, which is like
>moving around 20 states in some areas of the country.
>
>Have all your moves been within the guidelines set aside by the
>ARRL? i.e. 50 miles or less?
>
>ciao,
>
>SIG
>-----cut here-----
>Chuck Adams, K5FO - CP60
>adams@sgi.com
>QRP ARCI Awards Chairman

Well the last four moves were within 15 miles but at one point I moved 400 miles.

I don't think that's the issue. Once again hard and fast rules prove how silly it is to have hard and fast rules. My moving from southern California to northern California gave me not one whit of advantage in working Maine, or New Hampshire, or Delaware, or anywhere else. The states in the West are generally so large anyway that if you can work someone in Ashland (southern Oregon) when you are in L.A. and then move 400 miles north to Sacramento you still have the same path length to a station in Portland (northern Oregon).

Propagation being the crap shoot it is, and random contacts being the norm, my move within the state gave me no advantage at all. Perhaps the rules made sense when the League was all on 200 meters doing short-haul work on ground wave, and it certainly makes sense on vhf, but on the low bands - give me a break.

If I work the guy in Maine on 20 meters it was because I was on the air at the same time he was, I ran across the same frequency he was on, and propagation allowed it - not because I was in Sacramento or San Diego

or Galveston or Amarillo.

So in my book, screw the League's guidelines. It's about time we took to task the blind acceptance of others' rules as gospel and did our own thinking on the matter. I think we are capable of that and in fact we owe it to the organization to develop rules that make sense to us primarily in the context of qrp operating, and secondarily in contemporary patterns of social nomadism (as a society we move a great deal).

Grover
WT6P
qrp#6795

From qrp-request@Think.COM Fri Nov 12 15:40:16 1993
Date: Fri, 12 Nov 93 14:29:27 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: WAS Rules

Gang,

It was not the purpose of my correspondance with another member of this group to start an open discussion on the WAS award. The program has been in place for more than 25 years. I don't make the rules and in order to make a change in the rules requires an extensive procedure for the BOD (Board of Directors) and the membership.

I quote from a previous posting of the awards program:

The objective of the QRP ARCI Operating Awards Program is to demonstrate that "power is no substitute for skill". It encourages full enjoyment of Ham Radio while running the minimum power necessary to complete a QSO and thereby reducing QRM on our crowded bands. QRP is defined by the club as 5 watts output CW and 10 watts PEP output SSB. The following awards are available to any Amateur. Requirements are set forth below.

....stuff deleted....

WAS-QRP

This award is issued to any Amateur for confirming QSOs with stations in 20 or more of the 50 states of the USA while running QRP. Endorsement seals are issued at 30, 40 and 50 states confirmed.

....stuff deleted....

- 1) The fee for all awards, except QRP NET (QNI-25), is \$2.00 US or 10 IRCs. Subsequent Endorsement Seals are \$1.00 or 5 IRCs. Make checks or money orders (preferred) payable to QRP ARCI. Cash accepted, but not recommended through the mail.
- 2) GCR List (General Certificate Rule): QRP ARCI will accept as satisfactory proof of confirmed QSOs and that the QSLs are on hand as claimed by the applicant if the list is signed by: (a) a radio club official, OR (b) two amateur radio operators, general class or higher, OR (c) notary public, OR (d) CPA. If you must send QSLs, please include postage for their return. Neither QRP ARCI or the Awards Chairperson are responsible for lost or damaged QSLs.
- 3) QRP ARCI member numbers are not published. The Awards Program will accept as satisfactory proof for any of the club awards a QSO with a club member giving their membership number and power output in the log data. If the QRP number and power are not given a QSL is required for confirmation. See Note 2 above.
- 4) Endorsement seals are available for a) One Band, b) One Mode, c) Natural Power, d) Novice and e) Two-way QRP if log data so indicates.

Send Applications to:

QRP ARCI AWARDS CHAIRMAN
Chuck Adams K5FO
830 Waite Drive
Copper Canyon, TX 75067-8581

-----end of quote-----

The ARRL requirement of 50 miles or less from the same QTH isn't that much a serious deterrent to getting the award. Remember, we start at 20 states, not all 50. We're not trying to do like the CH (County Hunters) and be able to work all 3076 counties by even going there and making a contact to someone else.

The function of an award is to have something to show for effort expended on the part of the individual receiving the award. The individual, from one location, spends some time on the air working all or part of the 50 states. It is true that some individuals may have an advantage of geographical location over others due to rarity of band openings to needed states, lack of activity from needed states, band conditions for a single band for the desired

award with endorsement, and the list goes on.

In fact, QRP WAS #1 was issued Dec 12, 1969. Since that date, only 348 certificates have been issued, and not all of those have reached the 50 mark. So, it's not easy.

I think that anyone can get the starting 20 just by working one or two ARCI contests.

The question is this: Is it fair to all the individuals that worked to win the award under difficult conditions to have another win the same award with a different set of rules? I think the answer is an obvious no. Do you want a different award? Does the membership want a different award? Time will tell.

Also, there is one rule that we have that actually gives you an advantage over other award programs. We DO NOT REQUIRE QSL cards. We all have had trouble getting a QSL card from a needed state, country, If you work a fellow QRP ARCI member and exchange numbers, you have a valid contact. The QRP ARCI does not publish the membership list and numbers exactly for this reason. If the club changes this, then we add an additional level of difficulty into the program that would require the QSL cards and all the paper overhead and expense on all parties part.

We just have to keep our standards. End of Message.

73 de k5fo

SIG

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com
QRP ARCI Awards Chairman

From qrp-request@Think.COM Sat Nov 13 18:28:02 1993
From: jjw@seastar.org (John Welch)
Subject: Xtal Filter impedance ?
Date: Sat, 13 Nov 1993 17:17:36 -0600 (CST)

I've put together a simple home-brew crystal filter for SSB - 9 pole using 12MHz computer crystals matched with a simple oscillator. Since it's important to match each section for best performance, I built a simple wheatstone bridge and measured the filter with it. At resonance, it seems to be about 150-200 ohms, and at other frequencies

it's over 5k.

My question is, is this a functional way to measure the filter's impedance? It sure seems low, given that the ARRL's articles all seem to be in the 2-5k range, and commercially available filters are likewise. Am I missing something?

The filter seems to be about 3.2kHz wide, and fed at 150 ohms the filter attenuation maxes out at about 60db. It's built with 9 xtals in series, fed by a 91pf SM cap, with 91pf caps from each junction to ground, and it ends with a 91pf cap as well. The xtals are within 200hz of each other when I put them in a test oscillator, but this bears no resemblance to the actual series-resonant frequency (which I may be able to measure with the bridge too - more later).

Any light that can be shed on this would be appreciated. Oh, I do not have access to piles of old QSTs, so if there is an article in there that's relevant I'd like a readers digest condensed version if you could. Thanks in advance.

--

John Welch, N9JZW

From qrp-request@Think.COM Wed Nov 17 16:05:02 1993
Date: Wed, 17 Nov 93 16:40:02 EST
From: klaudon@PICA.ARMY.MIL
Subject: Your new job/qth

>"To the Editor, QST

>

>Sir:

>

>While I believe in a free marketplace, what kind of message does
>the ETO ad on page 145 of December _QST_ send to new hams? ('Life's
>too short for QRP!') Within the last year, QST devoted a considerable
[.....]

>James E. Kearman, KR1S

>Life Member, ARRL"

>

>I sometimes get email complaining about something the League has
>done. I'm willing to put my money where my mouth (and my job) is;
>how about YOU? Or do you agree with the staffer who told me I was
>taking my avocation (QRP) too seriously?

>

>72/73, Jim, KR1S

>ARRL Employee (this week, at least)

Well, Jim, if NAFTA passes today, then soon we're going to have to start

calling you, "Jimeno, XE1xxx"!!!

Kalman Laudon WD6CZI in 2 land
<klaudon@pica.army.mil>

----- End Included Message -----

Just think if NAFTA passes today We'll; have somewhere to dump all the old rigs in our basements. How ,any pesos do you think a heathkit hw-100 is worth. (6146's not included). Who syays this is a bad thing

adios
AE9K

From qrp-request@Think.COM Wed Nov 17 16:41:34 1993
Date: Wed, 17 Nov 93 16:40:02 EST
From: klaudon@PICA.ARMY.MIL
Subject: Your new job/qth

>"To the Editor, QST
>
>Sir:
>
>While I believe in a free marketplace, what kind of message does
>the ETO ad on page 145 of December _QST_ send to new hams? ('Life's
>too short for QRP!') Within the last year, QST devoted a considerable
[.....]
>James E. Kearman, KR1S
>Life Member, ARRL"
>
>I sometimes get email complaining about something the League has
>done. I'm willing to put my money where my mouth (and my job)is;
>how about YOU? Or do you agree with the staffer who told me I was
>taking my avocation (QRP) too seriously?
>
>72/73, Jim, KR1S
>ARRL Employee (this week, at least)

Well, Jim, if NAFTA passes today, then soon we're going to have to start calling you, "Jimeno, XE1xxx"!!!

Kalman Laudon WD6CZI in 2 land
<klaudon@pica.army.mil>

From qrp-request@Think.COM Wed Nov 17 17:27:09 1993
Date: Wed, 17 Nov 93 16:36:23 -0500
From: jkearman@arrl.org

Bob, N3MBY says:

> In this electronic age, do we really need to kill more trees
> sending snail.mail? Please post Brian Battles' email address so we
> can post our responsible comments and concerns in real-time. Our
> addresses are in the headers, let them serve as our signatures.
>

Trust me, folks. If you want to have an effect, sacrifice a tree.
The first few emailings are likely to get downloaded, the rest
sent off to the bitbucket. No reflection on the editor, but paper
still has more clout than electrons. You might CC: your Division
directors. Addresses in QST, page 8.

Since Bob asked, Brian's address is bbattles@arrl.org. Our FAX
number is 203-665-7531.

72/73, Jim, KR1S

--
jkearman@arrl.org

From qrp-request@Think.COM Mon Nov 8 14:37:23 1993
From: jlgiasi@umassmed.UMMED.EDU (John L. Luigi Giasi)
Subject: Zing!
Date: Mon, 8 Nov 93 14:36:40 EST

In the message from Jim Kearman.....

->Duane, WB9OMC, says:

->> Maybe so, but would it have anything in it of value? :-) :-) :-)

->

->But Duane's hardly in a position to make such a joke, as his

->ARRL membership ran out in 1982, according to our records. :>

->

->Jim, KR1S

Including the emoticons... it still bears out:

League - 1 (actually more like 160,00)

WB90MC - 0

--

John L. Luigi Giasi, AA1AA

System Programmer

Scientific Computing, IRD

University of Massachusetts Medical Center

jlglasia@umassmed.ummed.edu

..._._